

[illegible]

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```

```
1 0001 0 MODULE setfile (  
2 0002 0 IDENT = 'V04-000',  
3 0003 0 ADDRESSING_MODE (EXTERNAL=GENERAL,  
4 0004 0 NONEXTERNAL=LONG_RELATIVE)  
5 0005 0 ) =  
6 0006 1 BEGIN  
7 0007 1  
8 0008 1  
9 0009 1 *****  
10 0010 1 *  
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28 0028 1 *  
29 0029 1 *  
30 0030 1 *****  
31 0031 1  
32 0032 1  
33 0033 1 ++  
34 0034 1 FACILITY: Set File Command  
35 0035 1  
36 0036 1 ABSTRACT:  
37 0037 1  
38 0038 1 This module processes the Set File command.  
39 0039 1  
40 0040 1 ENVIRONMENT:  
41 0041 1  
42 0042 1 Vax native, privileged user mode  
43 0043 1  
44 0044 1 --  
45 0045 1  
46 0046 1 AUTHOR: Gerry Smith CREATION DATE: 04-Aug-1981  
47 0047 1  
48 0048 1 MODIFIED BY:  
49 0049 1  
50 0050 1 V03-023 AEW0005 Anne E. Warner 24-Jul-1984  
51 0051 1 Make /EXPIRATION_DATE and /GLOBAL_BUFFERS check if  
52 0052 1 the qualifier is present before trying to get any values  
53 0053 1 associated with it. This is needed because these qualifiers  
54 0054 1 are now negatable.  
55 0055 1  
56 0056 1 V03-022 BLS0303 Benn Schreiber 12-APR-1984  
57 0057 1 Parse null string after parse in /enter code.
```

58	0058	1	
59	0059	1	
60	0060	1	
61	0061	1	
62	0062	1	
63	0063	1	
64	0064	1	
65	0065	1	
66	0066	1	
67	0067	1	
68	0068	1	
69	0069	1	
70	0070	1	
71	0071	1	
72	0072	1	
73	0073	1	
74	0074	1	
75	0075	1	
76	0076	1	
77	0077	1	
78	0078	1	
79	0079	1	
80	0080	1	
81	0081	1	
82	0082	1	
83	0083	1	
84	0084	1	
85	0085	1	
86	0086	1	
87	0087	1	
88	0088	1	
89	0089	1	
90	0090	1	
91	0091	1	
92	0092	1	
93	0093	1	
94	0094	1	
95	0095	1	
96	0096	1	
97	0097	1	
98	0098	1	
99	0099	1	
100	0100	1	
101	0101	1	
102	0102	1	
103	0103	1	
104	0104	1	
105	0105	1	
106	0106	1	
107	0107	1	
108	0108	1	
109	0109	1	
110	0110	1	
111	0111	1	
112	0112	1	
113	0113	1	
114	0114	1	

V03-021	AEW0004	Anne E. Warner	10-Apr-1984
	Fix SET FILE/PROTECTION so that it handles wildcarding.		
V03-020	MCN0156	Maria del C. Nasr	08-Mar-1984
	If the user specifies /VERSION=0, then it should default to the maximum value: 32767. Also, the maximum value is 32767, and not 65535.		
V03-019	AEW0003	Anne E. Warner	28-Feb-1984
	Add support for search lists.		
	- remove related name block from RMS definitions.		
	- add argument to LIB\$FILE_SCAN		
V03-018	LMP0191	L. Mark Pilant,	10-Feb-1984 16:27
	Validate the value of the /OWNER qualifier.		
V03-017	DAS0002	David Solomon	6-Feb-1984
	Specify ACESM_NOPROPAGATE for RMSJNLID ACE. Disable /JOURNAL.		
V03-016	AEW0002	Anne Warner	15-Dec-1983
	Add /PROTECTION qualifier with keywords /CONFIRM and /LOG.		
V03-015	JWT0139	Jim Teague	09-Nov-1983
	Change the name of two of the RU fields; ensure that we don't leave the file set with conflicting RU attributes.		
V03-014	AEW0001	Anne Warner	08-Nov-1983
	Add /UNLOCK qualifier with keywords /CONFIRM and /LOG.		
V03-013	DAS0001	David Solomon	29-Jul-1983
	Fold /AI JOURNAL, /BI JOURNAL, and /AT JOURNAL into keywords on the /JOURNAL qualifier. /JOURNAL keyword RUM is now ONLY_RU. Add NEVER_RU keyword; a few journaling-related fixes.		
V03-012	GAS0147	Gerry Smith	27-Jun-1983
	Change the file attribute modification so that it is done thru a IOS MODIFY instead of simply during the IOS_DEACCESS. This is necessary for the case of the version limit, since it cannot be changed on file deaccess.		
V03-011	GAS0141	Gerry Smith	17-Jun-1983
	Signal all common qualifiers more completely, so that the specified file can be found.		
V03-010	KPL0002	Peter Lieberwirth	30-May-1983
	Change JSB\$\$_JNLNAM to CJF\$C_MXJNLNAML.		
V03-009	KPL0001	Peter Lieberwirth	20-Apr-1983
	Set journal names via new qualifiers AI JOURNAL, BI JOURNAL, and AT JOURNAL. When marking the file for journaling, write an RMSJNLID ACE.		

115	0115	1	V03-008	GAS0118	Gerry Smith	12-Apr-1983
116	0116	1		Add the common qualifiers.		
117	0117	1				
118	0118	1	V03-007	GAS0112	Gerry Smith	30-Mar-1983
119	0119	1		Convert to the new CLI interface, as well as a new		
120	0120	1		command dispatcher.		
121	0121	1				
122	0122	1	V03-006	TMK0001	Todd M. Katz	28-Feb-1983
123	0123	1		If someone requested AI journalling on a file to be turned		
124	0124	1		off (/JOURNAL=NOAI) then turn it off. Currently, AI Journalling		
125	0125	1		will always be enabled whenever it is explicitly referred to		
126	0126	1		(/JOURNAL=AI or /JOURNAL=NOAI), and there is no way to disable		
127	0127	1		it.		
128	0128	1				
129	0129	1	V03-005	GAS0091	Gerry Smith	19-Oct-1982
130	0130	1		Change input request for new CLD syntax.		
131	0131	1				
132	0132	1	V03-004	GAS0083	Gerry Smith	15-Jul-1982
133	0133	1		Modify logic for RU journal option, to agree with		
134	0134	1		new definition. The RUJNL bit used to have the opposite		
135	0135	1		sense of all other journal bits. It now has the same sense.		
136	0136	1				
137	0137	1	V03-003	GAS0071	Gerry Smith	8-Apr-1982
138	0138	1		If the writer count for a file is non-zero, don't allow		
139	0139	1		modification. If /END is attempted on INDEXF.SYS, don't		
140	0140	1		allow it.		
141	0141	1				
142	0142	1	V03-002	GAS0068	Gerry Smith	31-Mar-1982
143	0143	1		If a truncate is attempted on an indexed file, signal		
144	0144	1		an error.		
145	0145	1				
146	0146	1	V03-001	GAS0064	Gerry Smith	19-Mar-1982
147	0147	1		Change check of qualifiers to include /GLOBAL_BUFFERS.		
148	0148	1				
149	0149	1	V03-005	GAS0050	Gerry Smith	22-Feb-1982
150	0150	1		Only access the file header for something besides		
151	0151	1		/ENTER or /REMOVE. Make the error messages for /ENTER		
152	0152	1		and /REMOVE more meaningful. Change the /ENTER check for		
153	0153	1		same devices to use the DVI fields of the NAM blocks.		
154	0154	1				
155	0155	1	V03-004	GAS0047	Gerry Smith	15-Feb-1982
156	0156	1		For SET FILE/ENTER, parse the new file name here, after		
157	0157	1		the old file name is available, so that stickiness can		
158	0158	1		be applied.		
159	0159	1				
160	0160	1	V03-003	GAS0038	Gerry Smith	2-Feb-1982
161	0161	1		Add /GLOBAL_BUFFERS, the global buffer count for a		
162	0162	1		file. Also, if the file is ODS1, then move the record		
163	0163	1		attributes to the location occupied in an ODS2 file.		
164	0164	1		This allows the BIND in routine SET_ATTRIBUTES to apply		
165	0165	1		to both kinds of file headers.		
166	0166	1				
167	0167	1	V03-002	GAS0026	Gerry Smith	18-Dec-1981
168	0168	1		Use shared message file, and lower fatal messages to		
169	0169	1		simple error messages.		
170	0170	1				
171	0171	1	V03-001	GAS0024	Gerry Smith	14-Dec-1981

SETFILE
V04-000

F 3
16-Sep-1984 00:53:51
14-Sep-1984 12:09:07

VAX-11 Bliss-32 V4.0-742
[CLIUTL.SRC]SETFILE.B32;1

Page 4
(1)

```
.. 172 0172 1 !
.. 173 0173 1 !
.. 174 0174 1 !
.. 175 0175 1 !
.. 176 0176 1 !
.. 177 0177 1 !
.. 178 0178 1 !
.. 179 0179 1 !
.. 180 0180 1 !
.. 181 0181 1 !
.. 182 0182 1 !
.. 183 0183 1 !
.. 184 0184 1 !
.. 185 0185 1 !
.. 186 0186 1 !
.. 187 0187 1 !
.. 188 0188 1 !
.. 189 0189 1 !**
```

Fix /LOG logic for /ENTER and /REMOVE

V03-001 MSH0001 Maryann Hinden 02-Dec-1981
Change references to FIBSC_SIZE to FIBSC_LENGTH.

V03-001 GAS0021 Gerry Smith 30-Nov-1981
Fix /VERSION, making FIB larger

V03-001 GAS0018 Gerry Smith 16-Nov-1981
Split SET FILE into separate modules

V03-001 GAS0011 Gerry Smith 22-Sep-1981
Fix wildcarding for /ENTER. Add /END_OF_FILE

V03-002 GAS0012 Gerry Smith 30-Sep-1981
Add /LOG and /CONFIRM

SETFILE
V04-000

G 3
16-Sep-1984 00:53:51
14-Sep-1984 12:09:07

VAX-11 Bliss-32 V4.0-742
[CLIUTL.SRC]SETFILE.B32;1

Page 5
(2)

: 191
: 192
: 193

0190 1 LIBRARY 'SYSS\$LIBRARY:LIB';
0191 1 LIBRARY 'SYSS\$LIBRARY:CLIMAC.L32';
0192 1

! CLI macros

```
195 0193 1 FORWARD ROUTINE
196 0194 1   set$file : NOVALUE,
197 0195 1   get_qual,
198 0196 1   set_attributes,
199 0197 1
200 0198 1   unlock_action,
201 0199 1   check_privilege : NOVALUE,
202 0200 1   search_error,
203 0201 1   file_error,
204 0202 1   setpro_action,
205 0203 1   prot_log_results,
206 0204 1   expand_prot,
207 0205 1   parse_class;
208 0206 1
209 0207 1 EXTERNAL ROUTINE
210 0208 1   parse_uic,
211 0209 1   cli$present,
212 0210 1   cli$get_value,
213 0211 1   lib$cv_tdtb,
214 0212 1   lib$cv_ttime,
215 0213 1   lib$file_scan,
216 0214 1   lib$qual_file_parse,
217 0215 1   lib$qual_file_match,
218 0216 1   lib$confirm_act,
219 0217 1   lib$get_command,
220 0218 1   lib$unlock_file,
221 0219 1   sys$fao,
222 0220 1   sys$setprv,
223 0221 1   lib$set_file_prot;
224 0222 1
225 0223 1
226 0224 1   Literal data definitions
227 0225 1
228 0226 1 LITERAL
229 0227 1   true = 1,
230 0228 1   false = 0;
231 0229 1
232 0230 1 MACRO
233 0231 1
234 0232 1   Macro definitions for fields in access control entries needed by RMS
235 0233 1   Journaling
236 0234 1
237 0235 1   id_ace$s_size = 32 %,
238 0236 1   id_ace$t_label = 4,0,0,0 %,
239 0237 1   id_ace$w_num = 16,0,16,0 %,
240 0238 1   id_ace$w_seq = 18,0,16,0 %,
241 0239 1   id_ace$w_rvn = 20,0,16,0 %,
242 0240 1   id_ace$q_time = 24,0,32,0 %,
243 0241 1   ace$t_jnlnam = 4,0,0,0 %,
244 0242 1
245 0243 1   A) Macro to describe a string
246 0244 1   B) Macro to generate a quadword string descriptor
247 0245 1   C) Macro to generate the address of a string descriptor
248 0246 1
249 0247 1   PRIMDESC (str) = %CHARCOUNT (str), UPLIT (%ASCII str)%,
250 0248 1   INITDESC (str) = %BLOCK [DSC$C S,BLN] INITIAL (PRIMDESC (str))%,
251 0249 1   ADDRDESC (str) = UPLIT (PRIMDESC (str))%;
```

```
! Main routine for file
! Get qualifiers
! Routine to set file attributes
! Common routines:
! Called to control each UNLOCK action
! Routine to check for privilege
! Where to go if file search fails
! Where to go if file error occur
! Called to control each file PROTECTION
! Called when user requests a log for PROTECTION
! Converts binary protection to ascii
! Parses the protection of one user class

! Convert a UIC
! Get qualifiers
! Get values of qualifiers
! Convert ASCII to numerical
! Convert time to internal
! Routine to find next file
! Parse common qualifiers
! Check for common qualifiers
! Confirm action with user
! Talk to SYSSCOMMAND
! Unlocks files
! Expands formatted messages
! Set privileges for protection
! Set file protection
```

```
! size in bytes of rmsjnlid ACE
! volume label in rmsjnlid ACE
! fid num in rmsjnlid ACE
! fid seq in rmsjnlid ACE
! fid rvn in rmsjnlid ACE
! time in rmsjnlid ACE
! journal name string in jnl ACE
```

SETFILE
V04-000

^{1 3}
16-Sep-1984 00:53:51
14-Sep-1984 12:09:07

VAX-11 Bliss-32 V4.0-742
[CLIUTL.SRC]SETFILE.B32;1

Page 7
(3)

: 252
: 253

0250 1
0251 1

```
255 0252 1 1
256 0253 1 1 Define the data that is used by SET FILE
257 0254 1 1
258 0255 1 1 GLOBAL
259 0256 1 1 setfile$flags : BITVECTOR[32] INITIAL(0), Qualifier bits word
260 0257 1 1 setfile$dflags : BITVECTOR[32] INITIAL(0), DATA CHECK options word
261 0258 1 1 setfile$jflags : BITVECTOR[32] INITIAL(0), JOURNAL options word
262 0259 1 1 setfile$mflags : BITVECTOR[32] INITIAL(0), Miscellaneous flags word
263 0260 1 1 setpro_prot : WORD INITIAL(0), Contains /PROTECTION value
264 0261 1 1 setpro_mask : WORD INITIAL(0), Contains /PROTECTION mask
265 0262 1 1 global_prot : WORD, Command wide protection
266 0263 1 1 global_mask : WORD, Command wide mask for protection
267 0264 1 1 exp_value : $BBLOCK[8], Expiration date
268 0265 1 1 ext_value, Extension quantity
269 0266 1 1 gbuf_value, Global buffer value
270 0267 1 1 uic_value, Owner uic
271 0268 1 1 group, Group number
272 0269 1 1 member, Member number
273 0270 1 1 vrsn_value, Version limit
274 0271 1 1 rename_buf : VECTOR[nam$c_maxrss, BYTE], Name buffer for /ENTER
275 0272 1 1 file_name : VECTOR[2], ENTER/REMOVE descriptor
276 0273 1 1 ai_jnl_name : VECTOR[cjf$c_mx]nlnam1, BYTE], AI journal name
277 0274 1 1 at_jnl_name : VECTOR[cjf$c_mx]nlnam1, BYTE], AT journal name
278 0275 1 1 bi_jnl_name : VECTOR[cjf$c_mx]nlnam1, BYTE], BI journal name
279 0276 1 1 ai_jnl_desc : $BBLOCK[dsc$c_s_bln], AI_JOURNAL descriptor
280 0277 1 1 PRESET( [dsc$a_pointer] = ai_jnl_name ),
281 0278 1 1 at_jnl_desc : $BBLOCK[dsc$c_s_bln], ! AT_JOURNAL descriptor
282 0279 1 1 PRESET( [dsc$a_pointer] = at_jnl_name ),
283 0280 1 1 bi_jnl_desc : $BBLOCK[dsc$c_s_bln], ! BI_JOURNAL descriptor
284 0281 1 1 PRESET( [dsc$a_pointer] = bi_jnl_name ),
285 0282 1 1 worst_error : $BBLOCK[4] INITIAL(ss$normal), ! Worst error reported
286 0283 1 1 conf_desc : $BBLOCK[dsc$c_s_bln], ! Descriptor for /LOG/CONFIRM
287 0284 1 1
288 0285 1 1 oldpriv : $BBLOCK[8], ! Permanent priv's stored here
289 0286 1 1 newpriv : $BBLOCK[8], ! Mask describing system priv
290 0287 1 1 PRESET ([prv$v_syspriv]=true), ! Initialize this bit
291 0288 1 1
292 0289 1 1 RMS storage
293 0290 1 1
294 0291 1 1 file_result : VECTOR[nam$c_maxrss, BYTE], ! Resultant name string
295 0292 1 1 file_expanded : VECTOR[nam$c_maxrss, BYTE], ! Expanded name string
296 P 0293 1 1 file_name : $NAM( ! File name block
297 P 0294 1 1 ESA = file_expanded,
298 P 0295 1 1 ESS = nam$c_maxrss,
299 P 0296 1 1 RSA = file_result, ! File name after open
300 0297 1 1 RSS = nam$c_maxrss),
301 P 0298 1 1 file_fab : $FAB( ! FAB for file
302 0299 1 1 NAM = file_name); ! Specify name block
303 0300 1 1
304 0301 1 1
305 0302 1 1 Declare the context block used by the common qualifiers
306 0303 1 1
307 0304 1 1 OWN
308 0305 1 1 context;
```

```
310 0306 1 |
311 0307 1 | Declare the qualifier flag bits used by SET FILE
312 0308 1 |
313 0309 1 | LITERAL
314 P 0310 1 |   SEQUALST(QUAL,...1,1,
315 P 0311 1 |     (backup,),
316 P 0312 1 |     (nobackup,),
317 P 0313 1 |     (confirm,),
318 P 0314 1 |     (data,),
319 P 0315 1 |     (eof,),
320 P 0316 1 |     (erase,),
321 P 0317 1 |     (noerase,),
322 P 0318 1 |     (expi,),
323 P 0319 1 |     (exte,),
324 P 0320 1 |     (gbuf,),
325 P 0321 1 |     (journal,),
326 P 0322 1 |     (log,),
327 P 0323 1 |     (nodi,),
328 P 0324 1 |     (owner,),
329 P 0325 1 |     (parent,),
330 P 0326 1 |     (protection,),
331 P 0327 1 |     (trunc,),
332 P 0328 1 |     (unlock,),
333 P 0329 1 |     (vrsn,),
334 P 0330 1 |     (enter,),
335 P 0331 1 |     (remove,),
336 P 0332 1 |     (quit,),
337 P 0333 1 |     (quit_mod,),
338 P 0334 1 |     (quit_rem,),
339 P 0335 1 |     (quit_ent,),
340 P 0336 1 |     (quit_protect),
341 0337 1 |     (quit_unlock,));
342 0338 1 |
343 0339 1 |
344 0340 1 | Declare the DATA_CHECK option bits
345 0341 1 |
346 0342 1 | LITERAL
347 P 0343 1 |   SEQUALST
348 P 0344 1 |     (DATA,...1,1,
349 P 0345 1 |     (read,),
350 P 0346 1 |     (write,),
351 P 0347 1 |     (noread,),
352 0348 1 |     (nowrite,));
353 0349 1 |
354 0350 1 |
355 0351 1 | Declare the JOURNAL option bits
356 0352 1 |
357 0353 1 | LITERAL
358 P 0354 1 |   SEQUALST
359 P 0355 1 |     (JRNL,...1,1,
360 P 0356 1 |     (ai,),
361 P 0357 1 |     (specified_ai,),
362 P 0358 1 |     (at,),
363 P 0359 1 |     (specified_at,),
364 P 0360 1 |     (bi,),
365 P 0361 1 |     (specified_bi,),
366 P 0362 1 |     (ru,).
```

```
| DATA_CHECK = READ
| DATA_CHECK = WRITE
| DATA_CHECK = NOREAD
| DATA_CHECK = NOWRITE
```


SETFILE
V04-000

M 3
16-Sep-1984 00:53:51 VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:09:07 [CLIUTL.SRC]SETFILE.B32;1

Page 11
(5)

:	424	P	0420	i	(valerr, error),	:	Value out of range
:	425	P	0421	1	(syntax, error),	:	Syntax problem
:	426	P	0422	1	(confqual, error),	:	Conflicting qualifiers
:	427	P	0423	1	(delver, error),	:	Explicit version number required
:	428	P	0424	1	(notrunc, error),	:	Truncation not allowed
:	429	P	0425	1	(openin, error),	:	Error opening a file
:	430		0426	1	(searchfail, error));	:	Error searching for a file

```
0427 1 GLOBAL ROUTINE set$file : NOVALUE =
0428 1
0429 1 ++
0430 1
0431 1 Functional description
0432 1
0433 1 This is the main control module. It calls LIB$FILE_SCAN to perform
0434 1 the necessary functions on the file(s) specified in the call to SET.
0435 1
0436 1 Calling sequence
0437 1
0438 1 CALL set$file()
0439 1
0440 1 Input parameters
0441 1 none
0442 1
0443 1 Output parameters
0444 1 none
0445 1
0446 1 Implicit outputs
0447 1 none
0448 1
0449 1 Routine value
0450 1 none
0451 1
0452 1 Side effects
0453 1 none
0454 1
0455 1 --
0456 1
0457 2 BEGIN
0458 2
0459 2 LOCAL
0460 2 desc : $BLOCK[dsc$c_s_bln],
0461 2 scan_context, ! Sticky context argument for FILE$SCAN
0462 2 status;
0463 2
0464 2
0465 2 Check to make sure that the image is running with correct privilege.
0466 2
0467 2 check_privilege();
0468 2
0469 2
0470 2 Get the common qualifiers
0471 2
0472 2 status = lib$qual_file_parse(%REF(lib$m_cqf_exclude OR
0473 2 lib$m_cqf_before OR
0474 2 lib$m_cqf_since OR
0475 2 lib$m_cqf_created OR
0476 2 lib$m_cqf_modified OR
0477 2 lib$m_cqf_byowner),
0478 2 context);
0479 2
0480 2 IF NOT status
0481 2 THEN (SIGNAL(.status); RETURN);
0482 2
0483 2 ! Now to get all the command qualifiers.
```

```
.. 489      0484 2  !
.. 490      0485 2  IF NOT get_qual()
.. 491      0486 2  THEN RETURN;
.. 492      0487 2  !
.. 493      0488 2  !
.. 494      0489 2  ! Check to make sure that conflicting qualifiers were not specified.  If
.. 495      0490 2  ! they were, signal an error and stop.
.. 496      0491 2  !
.. 497      0492 2  !
.. 498      0493 2  IF .setfile$flags[qual_data]
.. 499      0494 2  THEN
.. 500      0495 2  IF .setfile$dflags[data_read] AND .setfile$dflags[data_noread]
.. 501      0496 2  OR .setfile$dflags[data_write] AND .setfile$dflags[data_nowrite]
.. 502      0497 2  THEN SIGNAL_STOP(set$_confqual);
.. 503      0498 2  !
.. 504      0499 2  IF .setfile$flags[qual_journal]
.. 505      0500 2  THEN
.. 506      0501 2  IF ( .setfile$jflags[jrnl_ru] AND .setfile$jflags[jrnl_only_ru] )
.. 507      0502 2  OR ( .setfile$jflags[jrnl_ru] AND .setfile$jflags[jrnl_never_ru] )
.. 508      0503 2  OR ( .setfile$jflags[jrnl_only_ru] AND .setfile$jflags[jrnl_never_ru] )
.. 509      0504 2  THEN SIGNAL_STOP(set$_confqual);
.. 510      0505 2  !
.. 511      0506 2  !
.. 512      0507 2  ! Next, for each file specified, find the file and perform the operations
.. 513      0508 2  ! requested.
.. 514      0509 2  !
.. 515      0510 2  scan_context = 0;                                ! Argument must be zero for file scan
.. 516      0511 2  $init_dyndesc(desc);                          ! Make a dynamic descriptor
.. 517      0512 2  WHILE cli$get_value(%ASCID 'FILE', desc)
.. 518      0513 2  AND NOT .setfile$flags[qual_quit] DO
.. 519      0514 2  BEGIN
.. 520      0515 2  file_fab[fab$b_fns] = .desc[dsc$w_length];
.. 521      0516 2  file_fab[fab$l_fna] = .desc[dsc$a_pointer];
.. 522      0517 2  lib$file_scan(                                ! For each file found,
.. 523      0518 2  file_fab,                                    ! Use this fab
.. 524      0519 2  set_attributes,                               ! Go here if file found
.. 525      0520 2  search_error,                                 ! Go here if error
.. 526      0521 2  scan_context)
.. 527      0522 2  END;
.. 528      0523 2  !
.. 529      0524 2  RETURN;
.. 530      0525 1  END;                                ! End of routine set$file
```

```
.TITLE SETFILE
.IDENT \V04-000\
.PSECT $PLITS,NOWRT,NOEXE,2
```

```
45 4C 49 46 00000 P.AAB: .ASCII \FILE\
010E0004 00004 P.AAA: .LONG 17694724
00000000 00008 .ADDRESS P.AAB
```

```
.PSECT $OWNS,NOEXE,2
```

```
00000 CONTEXT:.BLKB 4
```

SETFILE
V04-000

C 4
16-Sep-1984 00:53:51
14-Sep-1984 12:09:07

VAX-11 BLISS-32 V4.0-742
[CLIUTL.SRC]SETFILE.B32;1

Page 14
(6)

.PSECT \$GLOBALS,NOEXE,2

Address	Offset	Field Name	Field Type	Field Size
00000000	00000	SETFILES\$FLAGS::	.LONG	0
00000000	00004	SETFILES\$D\$FLAGS::	.LONG	0
00000000	00008	SETFILES\$J\$FLAGS::	.LONG	0
00000000	0000C	SETFILES\$M\$FLAGS::	.LONG	0
0000	00010	SETPRO_PROT::	.WORD	0
0000	00012	SETPRO_MASK::	.WORD	0
	00014	GLOBAL_PROT::	.BLKB	2
	00016	GLOBAL_MASK::	.BLKB	2
	00018	EXP_VALUE::	.BLKB	8
	00020	EXTE_VALUE::	.BLKB	4
	00024	GBUF_VALUE::	.BLKB	4
	00028	UIC_VALUE::	.BLKB	4
	0002C	GROUP::	.BLKB	4
	00030	MEMBER::	.BLKB	4
	00034	VRSN_VALUE::	.BLKB	4
	00038	RENAME_BUF::	.BLKB	255
	00137		.BLKB	1
	00138	FILE_NAME::	.BLKB	8
	00140	AI_JNL_NAME::	.BLKB	16
	00150	AT_JNL_NAME::	.BLKB	16
	00160	BI_JNL_NAME::	.BLKB	16
00#	00170	AI_JNL_DESC::	.BYTE	0[4]
00000000'	00174		.ADDRESS	AI_JNL_NAME
00#	00178	AT_JNL_DESC::	.BYTE	0[4]
00000000'	0017C		.ADDRESS	AT_JNL_NAME
00#	00180	BI_JNL_DESC::	.BYTE	0[4]
00000000'	00184		.ADDRESS	BI_JNL_NAME
000000001	00188	WORST_ERROR::	.LONG	1
	0018C	CONF_DESC::	.BLKB	8
	00194	OLDPRIV::	.BLKB	8
00#	0019C	NEWPRIV::		

```
10 0019F .BYTE 0[3]
    001A0 .BYTE 16
    001A4 FILE_RESULT:: .BLKB 4
    002A3 .BLKB 255
    002A4 FILE_EXPANDED:: .BLKB 1
    003A3 .BLKB 255
    02 003A4 FILE_NAM:: .BLKB 1
    60 003A5 .BYTE 2
    FF 003A6 .BYTE 96
    00 003A7 .BYTE -1
    00000000 003A8 .BYTE 0
    00 003AC .ADDRESS FILE_RESULT
    00 003AD .BYTE 0
    FF 003AE .BYTE -1
    00 003AF .BYTE 0
    00000000 003B0 .ADDRESS FILE_EXPANDED
    00000000 003B4 .LONG 0
    0000# 003B8 .WORD 0[8]
    0000# 003C8 .WORD 0[3]
    0000# 003CE .WORD 0[3]
    00000000 003D4 .LONG 0
    00000000 003D8 .LONG 0
    00 003DC .BYTE 0
    00 003DD .BYTE 0
    00 003DE .BYTE 0
    00 003DF .BYTE 0
    00 003E0 .BYTE 0
    00 003E1 .BYTE 0
    00# 003E2 .BYTE 0[2]
    00000000 003E4 .LONG 0
    00000000 003E8 .LONG 0
    00000000 003EC .LONG 0
    00000000 003F0 .LONG 0
    00000000 003F4 .LONG 0
    00000000 003F8 .LONG 0
    00000000# 003FC .LONG 0[2]
    03 00404 FILE_FAB:: .BYTE 3
    50 00405 .BYTE 80
    0000 00406 .WORD 0
    00000000 00408 .LONG 0
    00000000 0040C .LONG 0
    00000000 00410 .LONG 0
    00000000 00414 .LONG 0
    0000 00418 .WORD 0
    02 0041A .BYTE 2
    00 0041B .BYTE 0
    00000000 0041C .LONG 0
    00 00420 .BYTE 0
    00 00421 .BYTE 0
    00 00422 .BYTE 0
    02 00423 .BYTE 2
    00000000 00424 .LONG 0
```

00000000	00428	.LONG	0
00000000	0042C	.ADDRESS	FILE_NAM
00000000	00430	.LONG	0
00000000	00434	.LONG	0
00	00438	.BYTE	0
00	00439	.BYTE	0
0000	0043A	.WORD	0
00000000	0043C	.LONG	0
0000	00440	.WORD	0
00	00442	.BYTE	0
00	00443	.BYTE	0
00000000	00444	.LONG	0
00000000	00448	.LONG	0
0000	0044C	.WORD	0
00	0044E	.BYTE	0
00	0044F	.BYTE	0
00000000	00450	.LONG	0

SETS_BADLOGIC==	7803172
SETS_BADVALUE==	7803154
SETS_VALERR==	7803370
SETS_SYNTAX==	7803130
SETS_CONFQUAL==	7803618
SETS_DELVER==	7803402
SETS_NOTRUNC==	7803650
SETS_OPENIN==	7803034
SETS_SEARCHFAIL==	7803450

.EXTRN	PARSE_UIC, CLISPRESENT
.EXTRN	CLISGET_VALUE, LIB\$CVT_DTB
.EXTRN	LIB\$CVT_TIME, LIB\$FILE_SCAN
.EXTRN	LIB\$QUAL_FILE_PARSE
.EXTRN	LIB\$QUAL_FILE_MATCH
.EXTRN	LIB\$CONFIRM_ACT
.EXTRN	LIB\$GET_COMMAND
.EXTRN	LIB\$UNLOCK_FILE
.EXTRN	SYSS\$FAO, SYSS\$SETPRV
.EXTRN	LIB\$SET_FILE_PROT
.EXTRN	LIB\$QUITCONACT, LIB\$NEGANS
.EXTRN	LIB\$QUIPRO, LIB\$FICFAIMAT
.EXTRN	CLIS_IVPROT, CLIS_NEGATED
.EXTRN	CLIS_ABSENT, SETS_OPERREQ
.EXTRN	SETS_CLOSEERR, SETS_ENTERED
.EXTRN	SETS_ENTERR, SETS_MODIFIED
.EXTRN	SETS_NONODE, SETS_NOTDIR
.EXTRN	SETS_NOTLOCKED, SETS_NOTODS2
.EXTRN	SETS_OPENDIR, SETS_PRONOTCHG
.EXTRN	SETS_PROERR, SETS_PROTECTED
.EXTRN	SETS_READERR, SETS_REMERR
.EXTRN	SETS_REMOVED, SETS_UNLOCKERR
.EXTRN	SETS_WRITEERR, SETS_UNLOCKED

.PSECT \$CODE\$,NOWRT,2

53	00000000G	00	000C	00000
52	00000000'	EF	9E	00002
5E		10	C2	00010

.ENTRY	SET\$FILE, Save R2,R3
MOVAB	LIB\$STOP, R3
MOVAB	SETFILES\$JFLAGS, R2
SUBL2	#16, SP

: 0427
:
:
:

00000000V	EF	00000000'	00	FB	00013	CALLS	#0, CHECK_PRIVILEGE	:	0467
04	AE	013E	EF	9F	0001A	PUSHAB	CONTEXT	:	0472
		04	8F	3C	00020	MOVZWL	#318, 4(SP)	:	0476
00000000G	00		AE	9F	00026	PUSHAB	4(SP)	:	0472
	0A		02	FB	00029	CALLS	#2, LIB\$QUAL_FILE_PARSE	:	
			50	E8	00030	BLBS	STATUS, 1\$:	0479
00000000G	00		50	DD	00033	PUSHL	STATUS	:	0480
			01	FB	00035	CALLS	#1, LIB\$SIGNAL	:	
				04	0003C	RET		:	
00000000V	EF		00	FB	0003D	CALLS	#0, GET_QUALS	:	0485
	68		50	E9	00044	BLBC	R0, 9\$:	
1D	FB		04	E1	00047	BBC	#4, SETFILES\$FLAGS, 4\$:	0493
05	FC		01	E1	0004C	BBC	#1, SETFILES\$D_FLAGS, 2\$:	0495
0A	FC		03	E0	00051	BBS	#3, SETFILES\$D_FLAGS, 3\$:	
0E	FC		02	E1	00056	BBC	#2, SETFILES\$D_FLAGS, 4\$:	0496
09	FC		04	E1	00058	BBC	#4, SETFILES\$D_FLAGS, 4\$:	
		007712E2	8F	DD	00060	PUSHL	#7803618	:	0497
	63		01	FB	00066	CALLS	#1, LIB\$STOP	:	
23	F9		03	E1	00069	BBC	#3, SETFILES\$FLAGS+1, 7\$:	0499
			62	95	0006E	TSTB	SETFILES\$JFLAGS	:	0501
			0C	18	00070	BGEQ	5\$:	
11	01		01	E0	00072	BBS	#1, SETFILES\$JFLAGS+1, 6\$:	
			05	18	00077	BGEQ	5\$:	0502
0A	01		03	E0	00079	BBS	#3, SETFILES\$JFLAGS+1, 6\$:	
0E	01		01	E1	0007E	BBC	#1, SETFILES\$JFLAGS+1, 7\$:	0503
09	01		03	E1	00083	BBC	#3, SETFILES\$JFLAGS+1, 7\$:	
		007712E2	8F	DD	00088	PUSHL	#7803618	:	0504
	63		01	FB	0008E	CALLS	#1, LIB\$STOP	:	
		04	AE	D4	00091	CLRL	SCAN_CONTEXT	:	0510
08	AE	020E0000	8F	D0	00094	MOVL	#34471936, DESC	:	0511
		0C	AE	D4	0009C	CLRL	DESC+4	:	
		08	AE	9F	0009F	PUSHAB	DESC	:	0512
		00000000'	EF	9F	000A2	PUSHAB	P.AAA	:	
00000000G	00		02	FB	000A8	CALLS	#2, CLIS\$GET_VALUE	:	
	2D		50	E9	000AF	BLBC	R0, 10\$:	
28	FA		06	E0	000B2	BBS	#6, SETFILES\$FLAGS+2, 10\$:	0513
	0430	08	AE	90	000B7	MOVB	DESC, FILE_FAB+52	:	0515
	0428	0C	AE	D0	000BD	MOVL	DESC+4, FICE_FAB+44	:	0516
		04	AE	9F	000C3	PUSHAB	SCAN_CONTEXT	:	0517
		00000000V	EF	9F	000C6	PUSHAB	SEARCH_ERROR	:	
		00000000V	EF	9F	000CC	PUSHAB	SET_ATTRIBUTES	:	
		03FC	C2	9F	000D2	PUSHAB	FILE_FAB	:	
00000000G	00		04	FB	000D6	CALLS	#4, LIB\$FILE_SCAN	:	
			C0	11	000DD	BRB	8\$:	
			04	000DF	10\$:	RET		:	0525

; Routine Size: 224 bytes, Routine Base: \$CODE\$ + 0000

```
532 0526 1 ROUTINE get_qual =
533 0527 1 ++
534 0528 1
535 0529 1 This routine gets all the qualifiers and values.
536 0530 1
537 0531 1
538 0532 2 BEGIN
539 0533 2
540 0534 2 LOCAL
541 0535 2     status,
542 0536 2     desc : $BBLOCK[dsc$s_bln];
543 0537 2
544 0538 2 $init_dyndesc(desc);           ! Make a dynamic descriptor
545 0539 2
546 0540 2
547 0541 2 /[/NO]BACKUP
548 0542 2
549 0543 2 status = cli$present(%ASCID 'BACKUP');
550 0544 2 IF .status
551 0545 2 THEN setfile$flags[qual_backup] = 1
552 0546 2 ELSE IF .status EQL cli$_negated
553 0547 2 THEN setfile$flags[qual_nobackup] = 1;
554 0548 2
555 0549 2
556 0550 2 /[/CONFIRM
557 0551 2
558 0552 2 IF cli$present(%ASCID 'CONFIRM')
559 0553 2 THEN setfile$flags[qual_confirm] = 1;
560 0554 2
561 0555 2
562 0556 2 /[/DATA_CHECK
563 0557 2
564 0558 2 IF cli$present(%ASCID 'DATA_CHECK')
565 0559 2 THEN
566 0560 2     BEGIN
567 0561 2         setfile$flags[qual_data] = 1;
568 0562 2         IF NOT cli$get_value(%ASCID 'DATA_CHECK', desc)
569 0563 2         THEN setfile$dflags[data_write] = 1
570 0564 2         ELSE INCR i FROM 0 TO 1 DO
571 0565 2             BEGIN
572 0566 2                 IF CH$EQL(.desc[dsc$w_length], .desc[dsc$a_pointer],
573 0567 2                     .desc[dsc$w_length], UPLIT(BYTE('WRITE'))))
574 0568 2                 THEN setfile$dflags[data_write] = 1
575 0569 2                 ELSE IF CH$EQL(.desc[dsc$w_length], .desc[dsc$a_pointer],
576 0570 2                     .desc[dsc$w_length], UPLIT(BYTE('READ'))))
577 0571 2                 THEN setfile$dflags[data_read] = 1
578 0572 2                 ELSE
579 0573 2                     BEGIN
580 0574 2                         SIGNAL(set$_syntax, 1, desc);
581 0575 2                         RETURN false;
582 0576 2                     END;
583 0577 2                 IF NOT cli$get_value(%ASCID 'DATA_CHECK', desc)
584 0578 2                 THEN EXITLOOP
585 0579 2                 END;
586 0580 2     END;
587 0581 2
588 0582 2 !
```

```
589 0583 2 1 /ENTER
590 0584 2 1
591 0585 2 1 IF cli$get_value(%ASCID 'ENTER', desc)
592 0586 2 1 THEN
593 0587 2 1 BEGIN
594 0588 2 1     setfile$flags[qual_enter] = 1;
595 0589 2 1     CH$MOVE(.desc[dsc$w_length],
596 0590 2 1         .desc[dsc$a_pointer],
597 0591 2 1         rename_buf);
598 0592 2 1     file_name[0] = .desc[dsc$w_length];
599 0593 2 1     file_name[1] = .desc[dsc$a_pointer];
600 0594 2 1     $init_dyndesc(desc);
601 0595 2 1 END;
602 0596 2 1
603 0597 2 1
604 0598 2 1 /END_OF_FILE
605 0599 2 1
606 0600 2 1 IF cli$present(%ASCID 'END OF FILE')
607 0601 2 1 THEN setfile$flags[qual_eof] = 1;
608 0602 2 1
609 0603 2 1
610 0604 2 1 /[NO]ERASE_ON_DELETE
611 0605 2 1
612 0606 2 1 status = cli$present(%ASCID 'ERASE_ON_DELETE');
613 0607 2 1 IF .status
614 0608 2 1 THEN setfile$flags[qual_erase] = 1
615 0609 2 1 ELSE IF .status EQL cli$_negated
616 0610 2 1 THEN setfile$flags[qual_noerase] = 1;
617 0611 2 1
618 0612 2 1
619 0613 2 1 /EXPIRATION_DATE
620 0614 2 1
621 0615 2 1 IF cli$present(%ASCID 'EXPIRATION_DATE')
622 0616 2 1 THEN
623 0617 2 1     IF cli$get_value(%ASCID 'EXPIRATION_DATE', desc)
624 0618 2 1     THEN
625 0619 2 1         BEGIN
626 0620 2 1             setfile$flags[qual_expi] = 1;
627 0621 2 1             IF NOT lib$cvt_time(desc, exp_value)
628 0622 2 1             THEN
629 0623 2 1                 BEGIN
630 0624 2 1                     SIGNAL(set$_syntax, 1, desc);
631 0625 2 1                     RETURN false;
632 0626 2 1                 END;
633 0627 2 1             END;
634 0628 2 1
635 0629 2 1
636 0630 2 1 /EXTENSION
637 0631 2 1
638 0632 2 1 IF cli$present(%ASCID 'EXTENSION')
639 0633 2 1 THEN
640 0634 2 1     BEGIN
641 0635 2 1         setfile$flags[qual_exte] = 1;
642 0636 2 1         exte_value = 5;
643 0637 2 1         IF cli$get_value(%ASCID 'EXTENSION', desc)
644 0638 2 1         THEN
645 0639 2 1             BEGIN
```

```

: 646 0640 4      IF NOT lib$cvdt_dtb(.desc[dsc$w_length],
: 647 0641 4      .desc[dsc$a_pointer],
: 648 0642 4      exte_value)
: 649 0643 4      THEN
: 650 0644 3      BEGIN
: 651 0645 3      SIGNAL(set$_syntax, 1, desc);
: 652 0646 3      RETURN false;
: 653 0647 4      END;
: 654 0648 4      IF .exte_value LSS 0
: 655 0649 4      OR .exte_value GTR 65535
: 656 0650 4      THEN
: 657 0651 3      BEGIN
: 658 0652 3      SIGNAL(set$_syntax, 1, desc, set$_valerr);
: 659 0653 3      RETURN false;
: 660 0654 4      END;
: 661 0655 3      END;
: 662 0656 3      END;
: 663 0657 3
: 664 0658 3      /GLOBAL_BUFFERS
: 665 0659 3
: 666 0660 3      IF cli$present(%ASCII 'GLOBAL_BUFFERS')
: 667 0661 3      THEN
: 668 0662 3      IF cli$get_value(%ASCII 'GLOBAL_BUFFERS', desc)
: 669 0663 3      THEN
: 670 0664 3      BEGIN
: 671 0665 3      setfile$flags[qual_gbuf] = 1;
: 672 0666 3      IF NOT lib$cvdt_dtb(.desc[dsc$w_length],
: 673 0667 3      .desc[dsc$a_pointer],
: 674 0668 3      gbuf_value)
: 675 0669 3      THEN
: 676 0670 3      BEGIN
: 677 0671 4      SIGNAL(set$_syntax, 1, desc);
: 678 0672 4      RETURN false;
: 679 0673 4      END;
: 680 0674 3      IF .gbuf_value GTR 65535
: 681 0675 3      OR .gbuf_value LSS 0
: 682 0676 3      THEN
: 683 0677 3      BEGIN
: 684 0678 4      SIGNAL(set$_syntax, 1, desc, set$_valerr);
: 685 0679 4      RETURN false;
: 686 0680 4      END;
: 687 0681 3      END;
: 688 0682 3      END;
: 689 0683 3
: 690 0684 3      /JOURNAL
: 691 0685 3
: 692 0686 3      begin
: 693 0687 3      global set$gl_journaling;
: 694 0688 3      if .set$gl_journaling
: 695 0689 3      then
: 696 0690 3      IF cli$present(%ASCII 'JOURNAL')
: 697 0691 3      THEN
: 698 0692 3      BEGIN
: 699 0693 4      setfile$flags[qual_journal] = 1;
: 700 0694 4
: 701 0695 4      !
: 702 0696 4
```

```

703 0697 4 ! /JOURNAL=AI=ai_journal_name
704 0698 4 !
705 0699 4 status = cli$present( %ASCID 'JOURNAL.AI', desc );
706 0700 4 IF .status NEQU cli$_absent
707 0701 4 THEN
708 0702 4 BEGIN
709 0703 4 setfile$jflags[jrnl_specified_ai] = 1;
710 0704 4 IF .status
711 0705 4 THEN
712 0706 4 setfile$jflags[jrnl_ai] = 1
713 0707 4 ELSE if .status EQLU cli$_negated
714 0708 4 THEN
715 0709 4 setfile$jflags[jrnl_ai] = 0;
716 0710 4 IF cli$get_value( %ASCID 'JOURNAL.AI', desc )
717 0711 4 THEN
718 0712 4 BEGIN
719 0713 4 IF .desc[dsc$w_length] GTRU cij$c_mxjnl_naml
720 0714 4 THEN
721 0715 4 SIGNAL( set$_badvalue, 1, desc );
722 0716 4 setfile$jflags[jrnl_ai_name] = 1;
723 0717 4 ai_jnl_desc[dsc$w_length] = .desc[dsc$w_length];
724 0718 4 CH$MOVE( .desc[dsc$w_length], .desc[dsc$a_pointer], ai_jnl_name );
725 0719 4 END;
726 0720 4 END;
727 0721 4
728 0722 4 !
729 0723 4 ! /JOURNAL=AT=at_journal_name
730 0724 4 !
731 0725 4 status = cli$present( %ASCID 'JOURNAL.AT', desc );
732 0726 4 IF .status NEQU cli$_absent
733 0727 4 THEN
734 0728 4 BEGIN
735 0729 4 setfile$jflags[jrnl_specified_at] = 1;
736 0730 4 IF .status
737 0731 4 THEN
738 0732 4 setfile$jflags[jrnl_at] = 1
739 0733 4 ELSE if .status EQLU cli$_negated
740 0734 4 THEN
741 0735 4 setfile$jflags[jrnl_at] = 0;
742 0736 4 IF cli$get_value( %ASCID 'JOURNAL.AT', desc )
743 0737 4 THEN
744 0738 4 BEGIN
745 0739 4 IF .desc[dsc$w_length] GTRU cij$c_mxjnl_naml
746 0740 4 THEN
747 0741 4 SIGNAL( set$_badvalue, 1, desc );
748 0742 4 setfile$jflags[jrnl_at_name] = 1;
749 0743 4 at_jnl_desc[dsc$w_length] = .desc[dsc$w_length];
750 0744 4 CH$MOVE( .desc[dsc$w_length], .desc[dsc$a_pointer], at_jnl_name );
751 0745 4 END;
752 0746 4 END;
753 0747 4
754 0748 4 !
755 0749 4 ! /JOURNAL=BI=bi_journal_name
756 0750 4 !
757 0751 4 status = cli$present( %ASCID 'JOURNAL.BI', desc );
758 0752 4 IF .status NEQU cli$_absent
759 0753 4 THEN
```

```

760      0754 5      BEGIN
761      0755 5      setfile$jflags[jrnl_specified_bi] = 1;
762      0756 5      IF .status
763      0757 5      THEN
764      0758 5          setfile$jflags[jrnl_bi] = 1
765      0759 5      ELSE IF .status EQLU cli$_negated
766      0760 5      THEN
767      0761 5          setfile$jflags[jrnl_bi] = 0;
768      0762 5      IF cli$get_value( %ASCII 'JOURNAL.BI', desc )
769      0763 5      THEN
770      0764 6          BEGIN
771      0765 6              IF .desc[dsc$_length] GTRU cij$_mxjnl_nam
772      0766 6              THEN
773      0767 6                  SIGNAL( set$_badvalue, 1, desc );
774      0768 6                  setfile$jflags[jrnl_bi_name] = 1;
775      0769 6                  bi_jnl_desc[dsc$_length] = .desc[dsc$_length];
776      0770 6                  CH$MOVE( .desc[dsc$_length], .desc[dsc$_pointer], bi_jnl_name );
777      0771 5                  END;
778      0772 4      END;
779      0773 4
780      0774 4      /JOURNAL=RU
781      0775 4
782      0776 4      status = cli$present( %ASCII 'JOURNAL.RU', desc );
783      0777 4      IF .status NEQU cli$_absent
784      0778 4      THEN
785      0779 4          BEGIN
786      0780 5              setfile$jflags[jrnl_specified_ru] = 1;
787      0781 5              IF .status
788      0782 5              THEN
789      0783 5                  setfile$jflags[jrnl_ru] = 1
790      0784 5              ELSE IF .status EQLU cli$_negated
791      0785 5              THEN
792      0786 5                  setfile$jflags[jrnl_ru] = 0;
793      0787 5              END;
794      0788 4          END;
795      0789 4
796      0790 4      /JOURNAL=NEVER_RU
797      0791 4
798      0792 4      status = cli$present( %ASCII 'JOURNAL.NEVER_RU', desc );
799      0793 4      IF .status NEQU cli$_absent
800      0794 4      THEN
801      0795 4          BEGIN
802      0796 5              setfile$jflags[jrnl_specified_never_ru] = 1;
803      0797 5              IF .status
804      0798 5              THEN
805      0799 5                  setfile$jflags[jrnl_never_ru] = 1
806      0800 5              ELSE IF .status EQLU cli$_negated
807      0801 5              THEN
808      0802 5                  setfile$jflags[jrnl_never_ru] = 0;
809      0803 5              END;
810      0804 4          END;
811      0805 4
812      0806 4      /JOURNAL=ONLY_RU
813      0807 4
814      0808 4      status = cli$present( %ASCII 'JOURNAL.ONLY_RU', desc );
815      0809 4      IF .status NEQU cli$_absent
816      0810 4
```

```
817 0811 4 THEN
818 0812 5 BEGIN
819 0813 5 setfile$flags[jrnl_specified_only_ru] = 1;
820 0814 5 IF .status
821 0815 5 THEN
822 0816 5 setfile$flags[jrnl_only_ru] = 1
823 0817 5 ELSE IF .status EQLU cli$_negated
824 0818 5 THEN
825 0819 5 setfile$flags[jrnl_only_ru] = 0;
826 0820 4 END;
827 0821 4
828 0822 5 END;
829 0823 5 end; !**JNL**
830 0824 5
831 0825 5
832 0826 5 /LOG
833 0827 5
834 0828 5 setfile$flags[qual_log] = cli$present(%ASCID 'LOG');
835 0829 5
836 0830 5
837 0831 5 /NODIRECTORY
838 0832 5
839 0833 5 IF cli$present(%ASCID 'NODIRECTORY')
840 0834 5 THEN setfile$flags[qual_nodi] = 1;
841 0835 5
842 0836 5
843 0837 5 /OWNER_UIC
844 0838 5
845 0839 5 IF cli$present(%ASCID 'OWNER_UIC')
846 0840 5 THEN
847 0841 5 BEGIN
848 0842 5 setfile$flags[qual_owner] = 1;
849 0843 5 IF NOT cli$get_value(%ASCID 'OWNER_UIC', desc)
850 0844 5 THEN
851 0845 5 BEGIN
852 0846 5 LOCAL
853 0847 5 iosb : VECTOR[4,WORD];
854 0848 5 status = $GETJPIW(IIMLST = UPLIT(WORD(4,jpi$_uic),
855 0849 5 uic_value,
856 0850 5 0,
857 0851 5 0),
858 0852 5 IOSB = iosb);
859 0853 5 IF .status
860 0854 5 THEN status = .iosb[0];
861 0855 5 IF NOT .status
862 0856 5 THEN
863 0857 5 BEGIN
864 0858 5 SIGNAL(.status);
865 0859 5 RETURN false;
866 0860 5 END;
867 0861 5 END
868 0862 3 ELSE
869 0863 4 BEGIN
870 0864 4 IF CH$EQL(.desc[dsc$_length], .desc[dsc$_a_pointer],
871 0865 4 .desc[dsc$_length], UPLIT(BYTE('PARENT'))))
872 0866 4 THEN setfile$flags[qual_parent] = 1
873 0867 5 ELSE IF NOT (status = parse_uic(desc, uic_value))
```

```
.. 874      0868      THEN
.. 875      0869      BEGIN
.. 876      0870      SIGNAL(.status);
.. 877      0871      RETURN false;
.. 878      0872      END;
.. 879      0873      END;
.. 880      0874      END;
.. 881      0875      /PROTECTION
.. 882      0876      IF cli$present(%ASCID 'PROTECTION')
.. 883      0877      THEN
.. 884      0878      BEGIN
.. 885      0879      LOCAL
.. 886      0880      prot_desc : $BBLOCK[dsc$_s_bln]; ! Protection descriptor
.. 887      0881      setfile$flags[qual_protection] = 1;
.. 888      0882
.. 889      0883      Parse the /PROTECTION= value
.. 890      0884
.. 891      0885      $init_dyndesc(prot_desc); ! Make a dynamic descriptor
.. 892      0886
.. 893      0887      IF cli$present(%ASCID 'PROTECTION.SYSTEM')
.. 894      0888      THEN
.. 895      0889      BEGIN
.. 896      0890      setpro_mask = .setpro_mask OR %X'000F';
.. 897      0891      IF cli$get_value(%ASCID 'PROTECTION.SYSTEM', prot_desc)
.. 898      0892      THEN setpro_prot = parse_class(prot_desc);
.. 899      0893      END;
.. 900      0894      IF cli$present(%ASCID 'PROTECTION.OWNER')
.. 901      0895      THEN
.. 902      0896      BEGIN
.. 903      0897      setpro_mask = .setpro_mask OR %X'00F0';
.. 904      0898      IF cli$get_value(%ASCID 'PROTECTION.OWNER', prot_desc)
.. 905      0899      THEN setpro_prot = .setpro_prot OR parse_class(prot_desc)^4;
.. 906      0900      END;
.. 907      0901      IF cli$present(%ASCID 'PROTECTION.GROUP')
.. 908      0902      THEN
.. 909      0903      BEGIN
.. 910      0904      setpro_mask = .setpro_mask OR %X'0F00';
.. 911      0905      IF cli$get_value(%ASCID 'PROTECTION.GROUP', prot_desc)
.. 912      0906      THEN setpro_prot = .setpro_prot OR parse_class(prot_desc)^8;
.. 913      0907      END;
.. 914      0908      IF cli$present(%ASCID 'PROTECTION.WORLD')
.. 915      0909      THEN
.. 916      0910      BEGIN
.. 917      0911      setpro_mask = .setpro_mask OR %X'F000';
.. 918      0912      IF cli$get_value(%ASCID 'PROTECTION.WORLD', prot_desc)
.. 919      0913      THEN setpro_prot = .setpro_prot OR parse_class(prot_desc)^12;
.. 920      0914      END;
.. 921      0915
.. 922      0916      Complement the protection value since at this point, a bit set true
.. 923      0917      indicates that we want to ALLOW access, while the system convention
.. 924      0918      is that a bit set true indicates that we want to DENY access.
.. 925      0919
.. 926      0920
.. 927      0921
.. 928      0922
.. 929      0923
.. 930      0924
```

```
931 0925 3 IF .setpro_mask NEQ 0 ! If any protections specified
932 0926 3 THEN setpro_prot = NOT .setpro_prot; ! then get the complement
933 0927 3
934 0928 3
935 0929 3 ! Now save the command level protection in the protection
936 0930 3 ! area. If the user did not supply a command level protection then
937 0931 3 ! the global_mask will have a value of zero.
938 0932 3
939 0933 3 global_mask = .setpro_mask;
940 0934 3 global_prot = .setpro_prot;
941 0935 3 END;
942 0936 3
943 0937 3 /REMOVE
944 0938 3
945 0939 3 IF cli$present(%ASCID 'REMOVE')
946 0940 3 THEN setfile$flags[qual_remove] = 1;
947 0941 3
948 0942 3
949 0943 3 /TRUNCATE
950 0944 3
951 0945 3 IF cli$present(%ASCID 'TRUNCATE')
952 0946 3 THEN setfile$flags[qual_trunc] = 1;
953 0947 3
954 0948 3
955 0949 3 /UNLOCK
956 0950 3
957 0951 3 IF cli$present(%ASCID 'UNLOCK')
958 0952 3 THEN setfile$flags[qual_unlock] = 1;
959 0953 3
960 0954 3
961 0955 3 /VERSION_LIMIT
962 0956 3
963 0957 3 IF cli$present(%ASCID 'VERSION_LIMIT')
964 0958 3 THEN
965 0959 3 BEGIN
966 0960 3 setfile$flags[qual_vrsn] = 1; ! Show that /VERSION specified
967 0961 3 vrsn_value = 32767; ! Set to the default
968 0962 3 IF cli$get_value(%ASCID 'VERSION_LIMIT', desc)
969 0963 3 THEN
970 0964 3 BEGIN
971 0965 3 IF NOT lib$cvdtb(.desc[dsc$w_length],
972 0966 3 .desc[dsc$a_pointer],
973 0967 3 vrsn_value)
974 0968 3 THEN
975 0969 3 BEGIN
976 0970 3 SIGNAL(set$syntax, 1, desc);
977 0971 3 RETURN false;
978 0972 3 END;
979 0973 3
980 0974 3 IF .vrsn_value EQL 0
981 0975 3 THEN
982 0976 3 vrsn_value = 32767;
983 0977 3
984 0978 3 IF .vrsn_value LSS 0
985 0979 3 OR .vrsn_value GTR 32767
986 0980 3 THEN
987 0981 3 (SIGNAL(set$valerr); RETURN false);
```

```
: 988      0982 3      END;  
: 989      0983 2      END;  
: 990      0984 2  
: 991      0985 2 RETURN true;  
: 992      0986 1 END;
```

```
.PSECT $SPLITS,NOWRT,NOEXE,2  
  
00 00 50 55 4B 43 41 42 0000C P.AAD: .ASCII \BACKUP\<0><0>  
010E0006 00014 P.AAC: .LONG 17694726  
00000000 00018 P.AAD: .ADDRESS P.AAD  
00 4D 52 49 46 4E 4F 43 0001C P.AAF: .ASCII \CONFIRM\<0>  
010E0007 00024 P.AAE: .LONG 17694727  
00000000 00028 P.AAF: .ADDRESS P.AAF  
00 00 4B 43 45 48 43 5F 41 54 41 44 0002C P.AAH: .ASCII \DATA_CHECK\<0><0>  
010E000A 00038 P.AAG: .LONG 17694730  
00000000 0003C P.AAH: .ADDRESS P.AAH  
00 00 4B 43 45 48 43 5F 41 54 41 44 00040 P.AAJ: .ASCII \DATA_CHECK\<0><0>  
010E000A 0004C P.AAI: .LONG 17694730  
00000000 00050 P.AAJ: .ADDRESS P.AAJ  
45 54 49 52 57 00054 P.AAK: .ASCII \WRITE\  
00059 .BLKB 3  
00 00 4B 43 45 48 43 5F 41 54 41 44 0005C P.AAL: .ASCII \READ\  
010E000A 00060 P.AAN: .ASCII \DATA_CHECK\<0><0>  
00000000 0006C P.AAM: .LONG 17694730  
00 00 00 52 45 54 4E 45 00070 P.AAN: .ADDRESS P.AAN  
010E0005 00074 P.AAP: .ASCII \ENTER\<0><0><0>  
00000000 0007C P.AAO: .LONG 17694725  
00000000 00080 P.AAP: .ADDRESS P.AAP  
00 45 4C 49 46 5F 46 4F 5F 44 4E 45 00084 P.AAR: .ASCII \END OF FILE\<0>  
010E000B 00090 P.AAQ: .LONG 1769473T  
00000000 00094 P.AAR: .ADDRESS P.AAR  
45 54 45 4C 45 44 5F 4E 4F 5F 45 53 41 52 45 00098 P.AAT: .ASCII \ERASE_ON_DELETE\<0>  
000A7  
010E000F 000AB P.AAS: .LONG 17694735  
00000000 000AC P.AAT: .ADDRESS P.AAT  
45 54 41 44 5F 4E 4F 49 54 41 52 49 50 58 45 000B0 P.AAV: .ASCII \EXPIRATION_DATE\<0>  
000BF  
010E000F 000C0 P.AAU: .LONG 17694735  
00000000 000C4 P.AAV: .ADDRESS P.AAV  
45 54 41 44 5F 4E 4F 49 54 41 52 49 50 58 45 000C8 P.AAX: .ASCII \EXPIRATION_DATE\<0>  
000D7  
010E000F 000D8 P.AAW: .LONG 17694735  
00000000 000DC P.AAX: .ADDRESS P.AAX  
00 00 00 4E 4F 49 53 4E 45 54 58 45 000E0 P.AAZ: .ASCII \EXTENSION\<0><0><0>  
010E0009 000EC P.AAY: .LONG 17694729  
00000000 000F0 P.AAZ: .ADDRESS P.AAZ  
00 00 00 4E 4F 49 53 4E 45 54 58 45 000F4 P.ABB: .ASCII \EXTENSION\<0><0><0>  
010E0009 00100 P.ABA: .LONG 17694729  
00000000 00104 P.ABB: .ADDRESS P.ABB  
00 53 52 45 46 46 55 42 5F 4C 41 42 4F 4C 47 00108 P.ABD: .ASCII \GLOBAL_BUFFERS\<0><0>  
00117  
010E000E 00118 P.ABC: .LONG 17694734  
00000000 0011C P.ABD: .ADDRESS P.ABD  
00 53 52 45 46 46 55 42 5F 4C 41 42 4F 4C 47 00120 P.ABF: .ASCII \GLOBAL_BUFFERS\<0><0>
```

```
00 0012F
010E000E 00130 P.ABE: .LONG 17694734
00000000 00134 .ADDRESS P.ABF
00 4C 41 4E 52 55 4F 4A 00138 P.ABH: .ASCII \JOURNAL\<0>
010E0007 00140 P.ABG: .LONG 17694727
00000000 00144 .ADDRESS P.ABH
00 00 49 41 2E 4C 41 4E 52 55 4F 4A 00148 P.ABJ: .ASCII \JOURNAL.AI\<0><0>
010E000A 00154 P.ABI: .LONG 17694730
00000000 00158 .ADDRESS P.ABJ
00 00 49 41 2E 4C 41 4E 52 55 4F 4A 0015C P.ABL: .ASCII \JOURNAL.AI\<0><0>
010E000A 00168 P.ABK: .LONG 17694730
00000000 0016C .ADDRESS P.ABL
00 00 54 41 2E 4C 41 4E 52 55 4F 4A 00170 P.ABN: .ASCII \JOURNAL.AT\<0><0>
010E000A 0017C P.ABM: .LONG 17694730
00000000 00180 .ADDRESS P.ABN
00 00 54 41 2E 4C 41 4E 52 55 4F 4A 00184 P.ABP: .ASCII \JOURNAL.AT\<0><0>
010E000A 00190 P.ABO: .LONG 17694730
00000000 00194 .ADDRESS P.ABP
00 00 49 42 2E 4C 41 4E 52 55 4F 4A 00198 P.ABR: .ASCII \JOURNAL.BI\<0><0>
010E000A 001A4 P.ABQ: .LONG 17694730
00000000 001A8 .ADDRESS P.ABR
00 00 49 42 2E 4C 41 4E 52 55 4F 4A 001AC P.ABT: .ASCII \JOURNAL.BI\<0><0>
010E000A 001B8 P.ABS: .LONG 17694730
00000000 001BC .ADDRESS P.ABT
00 00 55 52 2E 4C 41 4E 52 55 4F 4A 001C0 P.ABV: .ASCII \JOURNAL.RU\<0><0>
010E000A 001CC P.ABU: .LONG 17694730
00000000 001D0 .ADDRESS P.ABV
52 5F 52 45 56 45 4E 2E 4C 41 4E 52 55 4F 4A 001D4 P.ABX: .ASCII \JOURNAL.NEVER_RU\
55 001E3
010E0010 001E4 P.ABW: .LONG 17694736
00000000 001E8 .ADDRESS P.ABX
55 52 5F 59 4C 4E 4F 2E 4C 41 4E 52 55 4F 4A 001EC P.ABZ: .ASCII \JOURNAL.ONLY_RU\<0>
00 001FB
010E000F 001FC P.ABY: .LONG 17694735
00000000 00200 .ADDRESS P.ABZ
00 47 4F 4C 00204 P.ACB: .ASCII \LOG\<0>
010E0003 00208 P.ACA: .LONG 17694723
00000000 0020C .ADDRESS P.ACB
00 59 52 4F 54 43 45 52 49 44 4F 4E 00210 P.ACD: .ASCII \NODIRECTORY\<0>
010E000B 0021C P.ACC: .LONG 17694731
00000000 00220 .ADDRESS P.ACD
00 00 00 43 49 55 5F 52 45 4E 57 4F 00224 P.ACF: .ASCII \OWNER.UIC\<0><0><0>
010E0009 00230 P.ACE: .LONG 17694729
00000000 00234 .ADDRESS P.ACF
00 00 00 43 49 55 5F 52 45 4E 57 4F 00238 P.ACH: .ASCII \OWNER.UIC\<0><0><0>
010E0009 00244 P.ACG: .LONG 17694729
00000000 00248 .ADDRESS P.ACH
0304 0004 0024C P.ACI: .WORD 4, 772
00000000 00250 .ADDRESS UIC_VALUE
00000000 00254 .LONG 0, 0
54 4E 45 52 41 50 0025C P.ACJ: .ASCII \PARENT\
00000000 00262 .BLKB 2
00 00 4E 4F 49 54 43 45 54 4F 52 50 00264 P.ACL: .ASCII \PROTECTION\<0><0>
010E000A 00270 P.ACK: .LONG 17694730
00000000 00274 .ADDRESS P.ACL
54 53 59 53 2E 4E 4F 49 54 43 45 54 4F 52 50 00278 P.ACN: .ASCII \PROTECTION.SYSTEM\<0><0><0>
00 00 00 4D 45 00287
```

54	53	59	53	2E	4E	4F	49	54	43	45	54	4F	52	50	00000000	010E0011	0028C	P.ACM:	.LONG	17694737
										00	00	00	4D	45	00000000	00290		.ADDRESS	P.ACM	
															010E0011	00294	P.ACP:	.ASCII	\PROTECTION.SYSTEM\<0><0><0>	
															00000000	002A3				
45	4E	57	4F	2E	4E	4F	49	54	43	45	54	4F	52	50	00000000	010E0011	002A8	P.ACO:	.LONG	17694737
															00000000	002AC		.ADDRESS	P.ACP	
															010E0010	002B0	P.ACR:	.ASCII	\PROTECTION.OWNER\	
															00000000	002BF				
45	4E	57	4F	2E	4E	4F	49	54	43	45	54	4F	52	50	00000000	010E0010	002C0	P.ACQ:	.LONG	17694736
															00000000	002C4		.ADDRESS	P.ACR	
															010E0010	002C8	P.ACT:	.ASCII	\PROTECTION.OWNER\	
															00000000	002D7				
55	4F	52	47	2E	4E	4F	49	54	43	45	54	4F	52	50	00000000	010E0010	002D8	P.ACS:	.LONG	17694736
															00000000	002DC		.ADDRESS	P.ACT	
															010E0010	002E0	P.ACV:	.ASCII	\PROTECTION.GROUP\	
															00000000	002EF				
55	4F	52	47	2E	4E	4F	49	54	43	45	54	4F	52	50	00000000	010E0010	002F0	P.ACU:	.LONG	17694736
															00000000	002F4		.ADDRESS	P.ACV	
															010E0010	002F8	P.ACX:	.ASCII	\PROTECTION.GROUP\	
															00000000	00307				
4C	52	4F	57	2E	4E	4F	49	54	43	45	54	4F	52	50	00000000	010E0010	00308	P.ACW:	.LONG	17694736
															00000000	0030C		.ADDRESS	P.ACX	
															010E0010	00310	P.ACZ:	.ASCII	\PROTECTION.WORLD\	
															00000000	0031F				
4C	52	4F	57	2E	4E	4F	49	54	43	45	54	4F	52	50	00000000	010E0010	00320	P.ACY:	.LONG	17694736
															00000000	00324		.ADDRESS	P.ACZ	
															010E0010	00328	P.ADB:	.ASCII	\PROTECTION.WORLD\	
															00000000	00337				
															010E0010	00338	P.ADA:	.LONG	17694736	
															00000000	0033C		.ADDRESS	P.ADB	
															010E0006	00340	P.ADD:	.ASCII	\REMOVE\<0><0>	
															00000000	00348	P.ADC:	.LONG	17694726	
															010E0008	0034C		.ADDRESS	P.ADD	
															00000000	00350	P.ADF:	.ASCII	\TRUNCATE\	
															010E0008	00358	P.ADE:	.LONG	17694728	
															00000000	0035C		.ADDRESS	P.ADF	
															010E0006	00360	P.ADH:	.ASCII	\UNLOCK\<0><0>	
															00000000	00368	P.ADG:	.LONG	17694726	
															010E0006	0036C		.ADDRESS	P.ADH	
00	00	54	49	4D	49	4C	5F	4E	4F	49	53	52	45	56	00000000	00370	P.ADJ:	.ASCII	\VERSION_LIMIT\<0><0><0>	
															00000000	0037F				
															010E000D	00380	P.ADI:	.LONG	17694733	
															00000000	00384		.ADDRESS	P.ADJ	
00	00	54	49	4D	49	4C	5F	4E	4F	49	53	52	45	56	00000000	00388	P.ADL:	.ASCII	\VERSION_LIMIT\<0><0><0>	
															00000000	00397				
															010E000D	00398	P.ADK:	.LONG	17694733	
															00000000	0039C		.ADDRESS	P.ADL	

.PSECT \$GLOBALS,NOEXE,2

00454 SET\$GL_JOURNALING::

.BLKB 4

.EXTRN SYSSGETJPIW

.PSECT \$CODE\$,NOWRT,2

				OFFC 00000 GET_QUALS:				
					.WORD	Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11	0526	
		5B	00000000G	8F D0 00002	MOVL	#CLIS NEGATED, R11		
		5A	00000000G	00 9E 00009	MOVAB	CLISGET VALUE, R10		
		59	00000000G	00 9E 00010	MOVAB	CLISPRESENT, R9		
		58	000000000	EF 9E 00017	MOVAB	P.AAC, R8		
		57	000000000	EF 9E 0001E	MOVAB	SETFILE\$FLAGS, R7		
		5E		10 C2 00025	SUBL2	#16, SP		
08		AE	020E0000	8F D0 00028	MOVL	#34471936, DESC	0538	
			OC	AE D4 00030	CLRL	DESC+4		
				58 DD 00033	PUSHL	R8	0543	
		69		01 FB 00035	CALLS	#1, CLISPRESENT		
		56		50 D0 00038	MOVL	R0, STATUS		
		05		56 E9 0003B	BLBC	STATUS, 1\$	0544	
		67		02 88 0003E	BISB2	#2, SETFILE\$FLAGS	0545	
				08 11 00041	BRB	2\$		
		5B		56 D1 00043	1\$: CMPL	STATUS, R11	0546	
				03 12 00046	BNEQ	2\$		
		67		04 88 00048	BISB2	#4, SETFILE\$FLAGS	0547	
			10	A8 9F 0004B	2\$: PUSHAB	P.AAE	0552	
		69		01 FB 0004E	CALLS	#1, CLISPRESENT		
		03		50 E9 00051	BLBC	R0, 3\$		
		67		08 88 00054	BISB2	#8, SETFILE\$FLAGS	0553	
			24	A8 9F 00057	3\$: PUSHAB	P.AAG	0558	
		69		01 FB 0005A	CALLS	#1, CLISPRESENT		
		46		50 E9 0005D	BLBC	R0, 9\$		
		67		10 88 00060	BISB2	#16, SETFILE\$FLAGS	0561	
			08	AE 9F 00063	PUSHAB	DESC	0562	
			38	A8 9F 00066	PUSHAB	P.AAI		
		6A		02 FB 00069	CALLS	#2, CLISGET_VALUE		
		06		50 E8 0006C	BLBS	R0, 4\$		
04		A7		04 88 0006F	BISB2	#4, SETFILE\$D_FLAGS	0563	
				31 11 00073	BRB	9\$		
				54 D4 00075	4\$: CLRL	I	0564	
40	A8	OC	BE	08 AE 29 00077	5\$: CMPC3	DESC, @DESC+4, P.AAK	0566	
				06 12 0007E	BNEQ	6\$		
		04	A7	04 88 00080	BISB2	#4, SETFILE\$D_FLAGS	0568	
				10 11 00084	BRB	8\$		
48	A8	OC	BE	08 AE 29 00086	6\$: CMPC3	DESC, @DESC+4, P.AAL	0569	
				03 13 0008D	BEQL	7\$		
		04	A7	04B1 31 0008F	BRW	56\$		
				02 88 00092	7\$: BISB2	#2, SETFILE\$D_FLAGS	0571	
			08	AE 9F 00096	8\$: PUSHAB	DESC	0577	
			58	A8 9F 00099	PUSHAB	P.AAM		
		6A		02 FB 0009C	CALLS	#2, CLISGET_VALUE		
		04		50 E9 0009F	BLBC	R0, 9\$		
	D1	54		01 F3 000A2	AOBLEQ	#1, I, 5\$		
			08	AE 9F 000A6	9\$: PUSHAB	DESC	0585	
			68	A8 9F 000A9	PUSHAB	P.AAO		
		6A		02 FB 000AC	CALLS	#2, CLISGET_VALUE		
		22		50 E9 000AF	BLBC	R0, 10\$		
		A7		10 88 000B2	BISB2	#16, SETFILE\$FLAGS+2	0588	
38	A7	OC	BE	08 AE 28 000B6	MOV3	DESC, @DESC+4, RENAME_BUF	0589	
		0138	C7	08 AE 3C 000BD	MOVZWL	DESC, FILE NAME	0592	
		013C	C7	OC AE D0 000C3	MOVL	DESC+4, FILE NAME+4	0593	
		08	AE	020E0000	8F D0 000C9	MOVL	#34471936, DESC	0594
			OC	AE D4 000D1	CLRL	DESC+4		

		7C	A8	9F	000D4	10\$:	PUSHAB	P.AAQ	0600
69			01	FB	000D7		CALLS	#1, CLISPRESNT	
03			50	E9	000DA		BLBC	R0, 11\$	
67			20	88	000DD		BISB2	#32, SETFILES\$FLAGS	0601
		0094	C8	9F	000E0	11\$:	PUSHAB	P.AAS	0606
69			01	FB	000E4		CALLS	#1, CLISPRESNT	
56			50	D0	000E7		MOVL	R0, STATUS	
06			56	E9	000EA		BLBC	STATUS, 12\$	0607
67		40	8F	88	000ED		BISB2	#64, SETFILES\$FLAGS	0608
			09	11	000F1		BRB	13\$	
5B			56	D1	000F3	12\$:	CMPL	STATUS, R11	0609
			04	12	000F6		BNEQ	13\$	
67		80	8F	88	000F8		BISB2	#128, SETFILES\$FLAGS	0610
		00AC	C8	9F	000FC	13\$:	PUSHAB	P.AAU	0615
69			01	FB	00100		CALLS	#1, CLISPRESNT	
21			50	E9	00103		BLBC	R0, 14\$	
		08	AE	9F	00106		PUSHAB	DESC	0617
		00C4	C8	9F	00109		PUSHAB	P.AAW	
6A			02	FB	0010D		CALLS	#2, CLISGET_VALUE	
14			50	E9	00110		BLBC	R0, 14\$	
01			01	88	00113		BISB2	#1, SETFILES\$FLAGS+1	0620
		18	A7	9F	00117		PUSHAB	EXP VALUE	0621
		0C	AE	9F	0011A		PUSHAB	DESC	
00000000G	00		02	FB	0011D		CALLS	#2, LIB\$CVT_TIME	
	6E		50	E9	00124		BLBC	R0, 16\$	
		00D8	C8	9F	00127	14\$:	PUSHAB	P.AAY	0632
69			01	FB	0012B		CALLS	#1, CLISPRESNT	
38			50	E9	0012E		BLBC	R0, 15\$	
01			02	88	00131		BISB2	#2, SETFILES\$FLAGS+1	0635
20			05	D0	00135		MOVL	#5, EXTE_VALUE	0636
		08	AE	9F	00139		PUSHAB	DESC	0637
		00EC	C8	9F	0013C		PUSHAB	P.ABA	
6A			02	FB	00140		CALLS	#2, CLISGET_VALUE	
23			50	E9	00143		BLBC	R0, 15\$	
		20	A7	9F	00146		PUSHAB	EXTE_VALUE	0640
		10	AE	DD	00149		PUSHL	DESC, 4	0641
00000000G	7E		10	AE	3C	0014C	MOVZWL	DESC, -(SP)	0640
	00		03	FB	00150		CALLS	#3, LIB\$CVT_DTB	
	38		50	E9	00157		BLBC	R0, 16\$	
	50		20	A7	D0	0015A	MOVL	EXTE_VALUE, R0	0648
			4A	19	0015E		BLSS	18\$	
0000FFFF	8F		50	D1	00160		CMPL	R0, #65535	0649
			41	14	00167		BGTR	18\$	
		0104	C8	9F	00169	15\$:	PUSHAB	P.ABC	0661
69			01	FB	0016D		CALLS	#1, CLISPRESNT	
52			50	E9	00170		BLBC	R0, 19\$	
		08	AE	9F	00173		PUSHAB	DESC	0663
		011C	C8	9F	00176		PUSHAB	P.ABE	
6A			02	FB	0017A		CALLS	#2, CLISGET_VALUE	
45			50	E9	0017D		BLBC	R0, 19\$	
01			04	88	00180		BISB2	#4, SETFILES\$FLAGS+1	0666
		24	A7	9F	00184		PUSHAB	GBUF_VALUE	0667
		10	AE	DD	00187		PUSHL	DESC, 4	0668
		10	AE	3C	0018A		MOVZWL	DESC, -(SP)	0667
00000000G	7E		03	FB	0018E		CALLS	#3, LIB\$CVT_DTB	
	00		50	E8	00195	16\$:	BLBS	R0, 17\$	
	03		03A8	31	00198		BRW	56\$	

0000FFFF	8F	24	A7	D1	0019B	17\$:	CMPL	GBUF_VALUE, #65535	0675
			05	14	001A3		BGTR	18\$	
		24	A7	D5	001A5		TSTL	GBUF_VALUE	0676
			1B	18	001A8		BGEQ	19\$	
		007711EA	8F	DD	001AA	18\$:	PUSHL	#7803370	0679
		0C	AE	9F	001B0		PUSHAB	DESC	
			01	DD	001B3		PUSHL	#1	
00000000G	00	007710FA	8F	DD	001B5		PUSHL	#7803130	
			04	FB	001BB		CALLS	#4, LIB\$SIGNAL	
			03BF	31	001C2		BRW	62\$	0680
	03	0454	C7	E8	001C5	19\$:	BLBS	SET\$GL_JOURNALING, 21\$	0689
			01C0	31	001CA	20\$:	BRW	39\$	
		012C	C8	9F	001CD	21\$:	PUSHAB	P.ABG	0691
	69		01	FB	001D1		CALLS	#1, CLISPRESNT	
	F3		50	E9	001D4		BLBC	R0, 20\$	
01	A7		08	88	001D7		BISB2	#8, SETFILES\$FLAGS+1	0694
		08	AE	9F	001DB		PUSHAB	DESC	0699
		0140	C8	9F	001DE		PUSHAB	P.ABI	
	69		02	FB	001E2		CALLS	#2, CLISPRESNT	
	56		50	D0	001E5		MOVL	R0, STATUS	
00000000G	8F		56	D1	001E8		CMPL	STATUS, #CLIS_ABSENT	0700
			4D	13	001EF		BEQL	25\$	
08	A7		04	88	001F1		BISB2	#4, SETFILES\$JFLAGS	0703
	06		56	E9	001F5		BLBC	STATUS, 22\$	0704
08	A7		02	88	001F8		BISB2	#2, SETFILES\$JFLAGS	0706
			09	11	001FC		BRB	23\$	
	5B		56	D1	001FE	22\$:	CMPL	STATUS, R11	0707
			04	12	00201		BNEQ	23\$	
08	A7		02	8A	00203		BICB2	#2, SETFILES\$JFLAGS	0709
		08	AE	9F	00207	23\$:	PUSHAB	DESC	0710
		0154	C8	9F	0020A		PUSHAB	P.ABK	
	6A		02	FB	0020E		CALLS	#2, CLISGET_VALUE	
	2A		50	E9	00211		BLBC	R0, 25\$	
	10		08	AE	B1 00214		CMPL	DESC, #16	0713
			12	1B	00218		BLEQU	24\$	
		08	AE	9F	0021A		PUSHAB	DESC	0715
			01	DD	0021D		PUSHL	#1	
		00771112	8F	DD	0021F		PUSHL	#7803154	
00000000G	00		03	FB	00225		CALLS	#3, LIB\$SIGNAL	
	09		20	88	0022C	24\$:	BISB2	#32, SETFILES\$JFLAGS+1	0716
	0170		08	AE	B0 00230		MOVW	DESC, AI_JNL_DESC	0717
0140	C7	0C	08	AE	28 00236		MOVW	DESC, @DESC+4, AI_JNL_NAME	0718
			08	AE	9F 0023E	25\$:	PUSHAB	DESC	0725
		0168	C8	9F	00241		PUSHAB	P.ABM	
	69		02	FB	00245		CALLS	#2, CLISPRESNT	
	56		50	D0	00248		MOVL	R0, STATUS	
00000000G	8F		56	D1	0024B		CMPL	STATUS, #CLIS_ABSENT	0726
			4E	13	00252		BEQL	29\$	
08	A7		10	88	00254		BISB2	#16, SETFILES\$JFLAGS	0729
	06		56	E9	00258		BLBC	STATUS, 26\$	0730
08	A7		08	88	0025B		BISB2	#8, SETFILES\$JFLAGS	0732
			09	11	0025F		BRB	27\$	
	5B		56	D1	00261	26\$:	CMPL	STATUS, R11	0733
			04	12	00264		BNEQ	27\$	
08	A7		08	8A	00266		BICB2	#8, SETFILES\$JFLAGS	0735
		08	AE	9F	0026A	27\$:	PUSHAB	DESC	0736
		017C	C8	9F	0026D		PUSHAB	P.ABO	

		6A		02	FB	00271	CALLS	#2, CLISGET_VALUE	
		2B		50	E9	00274	BLBC	R0, 29\$	
		10	08	AE	B1	00277	CMPW	DESC, #16	0739
			08	12	1B	0027B	BLEQU	28\$	
				AE	9F	0027D	PUSHAB	DESC	0741
				01	DD	00280	PUSHL	#1	
			00771112	8F	DD	00282	PUSHL	#7803154	
	00000000G	00		03	FB	00288	CALLS	#3, LIB\$SIGNAL	
	09	A7	40	8F	88	0028F	BISB2	#64, SETFILESJFLAGS+1	0742
	0178	C7	08	AE	B0	00294	MOVW	DESC, AT_JNL_DESC	0743
0150	C7	OC	08	AE	28	0029A	MOVC3	DESC, @DESC+4, AT_JNL_NAME	0744
			08	AE	9F	002A2	PUSHAB	DESC	0751
			0190	C8	9F	002A5	PUSHAB	P.ABQ	
		69		02	FB	002A9	CALLS	#2, CLISPRESENT	
		56		50	D0	002AC	MOVL	R0, STATUS	
	00000000G	8F		56	D1	002AF	CMPL	STATUS, #CLIS_ABSENT	0752
				4F	13	002B6	BEQL	33\$	
	08	A7	40	8F	88	002B8	BISB2	#64, SETFILESJFLAGS	0755
		06		56	E9	002BD	BLBC	STATUS, 30\$	0756
	08	A7		20	88	002CC	BISB2	#32, SETFILESJFLAGS	0758
				09	11	002C4	BRB	31\$	
		5B		56	D1	002C6	CMPL	STATUS, R11	0759
				04	12	002C9	BNEQ	31\$	
	08	A7		20	8A	002CB	BICB2	#32, SETFILESJFLAGS	0761
			08	AE	9F	002CF	PUSHAB	DESC	0762
			01A4	C8	9F	002D2	PUSHAB	P.ABS	
		6A		02	FB	002D6	CALLS	#2, CLISGET_VALUE	
		2B		50	E9	002D9	BLBC	R0, 33\$	
		10	08	AE	B1	002DC	CMPW	DESC, #16	0765
			08	12	1B	002E0	BLEQU	32\$	
				AE	9F	002E2	PUSHAB	DESC	0767
				01	DD	002E5	PUSHL	#1	
			00771112	8F	DD	002E7	PUSHL	#7803154	
	00000000G	00		03	FB	002ED	CALLS	#3, LIB\$SIGNAL	
	09	A7	80	8F	88	002F4	BISB2	#128, SETFILESJFLAGS+1	0768
	0180	C7	08	AE	B0	002F9	MOVW	DESC, BI_JNL_DESC	0769
0160	C7	OC	08	AE	28	002FF	MOVC3	DESC, @DESC+4, BI_JNL_NAME	0770
			08	AE	9F	00307	PUSHAB	DESC	0777
			01B8	C8	9F	0030A	PUSHAB	P.ABU	
		69		02	FB	0030E	CALLS	#2, CLISPRESENT	
		56		50	D0	00311	MOVL	R0, STATUS	
	00000000G	8F		56	D1	00314	CMPL	STATUS, #CLIS_ABSENT	0778
				18	13	0031B	BEQL	35\$	
	09	A7		01	88	0031D	BISB2	#1, SETFILESJFLAGS+1	0781
		07		56	E9	00321	BLBC	STATUS, 34\$	0782
	08	A7	80	8F	88	00324	BISB2	#128, SETFILESJFLAGS	0784
				0A	11	00329	BRB	35\$	
		5B		56	D1	0032B	CMPL	STATUS, R11	0785
				05	12	0032E	BNEQ	35\$	
	08	A7	80	8F	8A	00330	BICB2	#128, SETFILESJFLAGS	0787
			08	AE	9F	00335	PUSHAB	DESC	0793
			01D0	C8	9F	00338	PUSHAB	P.ABW	
		69		02	FB	0033C	CALLS	#2, CLISPRESENT	
		56		50	D0	0033F	MOVL	R0, STATUS	
	00000000G	8F		56	D1	00342	CMPL	STATUS, #CLIS_ABSENT	0794
				16	13	00349	BEQL	37\$	
	09	A7		10	88	0034B	BISB2	#16, SETFILESJFLAGS+1	0797

09	06	56	E9	0034F	BLBC	STATUS, 36\$	0798
	A7	08	88	00352	BISB2	#8, SETFILESJFLAGS+1	0800
	5B	09	11	00356	BRB	37\$	
		56	D1	00358	36\$:	CMPL	STATUS, R11
		04	12	0035B	BNEQ	37\$	0801
09	A7	08	8A	0035D	BICB2	#8, SETFILESJFLAGS+1	0803
		08	9F	00361	37\$:	PUSHAB	DESC
		01E8	C8	9F	00364	PUSHAB	P.ABY
	69	02	FB	00368	CALLS	#2, CLISPRESNT	
	56	50	DO	0036B	MOVL	R0, STATUS	
00000000G	8F	56	D1	0036E	CMPL	STATUS, #CLIS_ABSENT	0810
		16	13	00375	BEQL	39\$	
09	A7	04	88	00377	BISB2	#4, SETFILESJFLAGS+1	0813
	06	56	E9	0037B	BLBC	STATUS, 38\$	0814
09	A7	02	88	0037E	BISB2	#2, SETFILESJFLAGS+1	0816
		09	11	00382	BRB	39\$	
	5B	56	D1	00384	38\$:	CMPL	STATUS, R11
		04	12	00387	BNEQ	39\$	0817
09	A7	02	8A	00389	BICB2	#2, SETFILESJFLAGS+1	0819
		01F4	C8	9F	0038D	39\$:	0828
	69	01	FB	00391	PUSHAB	P.ACA	
01	A7	04	50	FO	00394	CALLS	#1, CLISPRESNT
		0208	C8	9F	0039A	INSV	R0, #4, #1, SETFILES\$FLAGS+1
	69	01	FB	0039E	PUSHAB	P.ACC	0833
	04	50	E9	003A1	CALLS	#1, CLISPRESNT	
01	A7	20	88	003A4	BLBC	R0, 40\$	
		021C	C8	9F	003AB	BISB2	#32, SETFILES\$FLAGS+1
	69	01	FB	003AC	PUSHAB	P.ACE	0834
	5A	50	E9	003AF	CALLS	#1, CLISPRESNT	0839
01	A7	8F	88	003B2	BLBC	R0, 45\$	
		08	AE	9F	003B7	BISB2	#64, SETFILES\$FLAGS+1
		0230	C8	9F	003BA	PUSHAB	DESC
	6A	02	FB	003BE	PUSHAB	P.ACG	0842
	1F	50	E8	003C1	CALLS	#2, CLISGET_VALUE	0843
		7E	7C	003C4	BLBS	R0, 41\$	
		08	AE	9F	003C6	CLRQ	-(SP)
		0238	C8	9F	003C9	PUSHAB	IOSB
		7E	7C	003CD	PUSHAB	P.ACI	
		7E	D4	003CF	CLRQ	-(SP)	
00000000G	00	07	FB	003D1	CLRL	-(SP)	
	56	50	DO	003D8	CALLS	#7, SYSSGETJPIW	
	29	56	E9	003DB	MOVL	R0, STATUS	
	56	6E	3C	003DE	BLBC	STATUS, 44\$	0853
		21	11	003E1	MOVZWL	IOSB, STATUS	0854
0248	C8	08	AE	29	003E3	41\$:	0855
		07	12	003EB	BRB	43\$	0864
	01	80	8F	88	003ED	CMPC3	DESC, @DESC+4, P.ACJ
		18	11	003F2	BNEQ	42\$	
		28	A7	9F	003F4	BISB2	#128, SETFILES\$FLAGS+1
		0C	AE	9F	003F7	BRB	45\$
			02	FB	003FA	PUSHAB	UIC VALUE
00000000G	00	50	DO	00401	PUSHAB	DESC	0867
	56	56	E8	00404	CALLS	#2, PARSE UIC	
	05	56	DD	00407	MOVL	R0, STATUS	
		0168	31	00409	BLBS	STATUS, 45\$	0870
		025C	C8	9F	0040C	PUSHL	STATUS
	69	01	FB	00410	BRW	60\$	
					PUSHAB	P.ACK	0878
					CALLS	#1, CLISPRESNT	

03	50	E8	00413	BLBS	R0, 46\$	
02	A7	00CB	31 00416	BRW	52\$	
6E	020E0000	01	88 00419	BISB2	#1, SETFILES\$FLAGS+2	0884
	04	8F	DO 0041D	MOVL	#34471936, PROT_DESC	0889
	0278	AE	D4 00424	CLRL	PROT_DESC+4	
69		C8	9F 00427	PUSHAB	P.ACM	0891
1D		01	FB 0042B	CALLS	#1, CLISPRESENT	
12	A7	50	E9 0042E	BLBC	R0, 47\$	
		0F	88 00431	BISB2	#15, SETPRO_MASK	0894
	0294	5E	DD 00435	PUSHL	SP	0895
6A		C8	9F 00437	PUSHAB	P.ACO	
0D		02	FB 0043B	CALLS	#2, CLISGET_VALUE	
		50	E9 0043E	BLBC	R0, 47\$	
00000000V	EF	5E	DD 00441	PUSHL	SP	0896
10	A7	01	FB 00443	CALLS	#1, PARSE_CLASS	
	02AC	50	B0 0044A	MOVW	R0, SETPRO_PROT	
69		C8	9F 0044E	PUSHAB	P.ACO	0898
21		01	FB 00452	CALLS	#1, CLISPRESENT	
12	A7	50	E9 00455	BLBC	R0, 48\$	
	F0	8F	88 00458	BISB2	#240, SETPRO_MASK	0901
	02C4	5E	DD 0045D	PUSHL	SP	0902
6A		C8	9F 0045F	PUSHAB	P.ACS	
10		02	FB 00463	CALLS	#2, CLISGET_VALUE	
		50	E9 00466	BLBC	R0, 48\$	
00000000V	EF	5E	DD 00469	PUSHL	SP	0903
	50	01	FB 0046B	CALLS	#1, PARSE_CLASS	
10	A7	10	C4 00472	MULL2	#16, R0	
	02DC	50	AB 00475	BISW2	R0, SETPRO_PROT	
69		C8	9F 00479	PUSHAB	P.ACU	0905
21		01	FB 0047D	CALLS	#1, CLISPRESENT	
13	A7	50	E9 00480	BLBC	R0, 49\$	
	02F4	0F	88 00483	BISB2	#15, SETPRO_MASK+1	0908
		5E	DD 00487	PUSHL	SP	0909
6A		C8	9F 00489	PUSHAB	P.ACW	
11		02	FB 0048D	CALLS	#2, CLISGET_VALUE	
		50	E9 00490	BLBC	R0, 49\$	
00000000V	EF	5E	DD 00493	PUSHL	SP	0910
50	50	01	FB 00495	CALLS	#1, PARSE_CLASS	
10	A7	08	78 0049C	ASHL	#8, R0, R0	
	030C	50	AB 004A0	BISW2	R0, SETPRO_PROT	
69		C8	9F 004A4	PUSHAB	P.ACY	0912
22		01	FB 004AB	CALLS	#1, CLISPRESENT	
13	A7	50	E9 004AB	BLBC	R0, 50\$	
	F0	8F	88 004AE	BISB2	#240, SETPRO_MASK+1	0915
	0324	5E	DD 004B3	PUSHL	SP	0916
6A		C8	9F 004B5	PUSHAB	P.ADA	
11		02	FB 004B9	CALLS	#2, CLISGET_VALUE	
		50	E9 004BC	BLBC	R0, 50\$	
00000000V	EF	5E	DD 004BF	PUSHL	SP	0917
50	50	01	FB 004C1	CALLS	#1, PARSE_CLASS	
10	A7	0C	78 004C8	ASHL	#12, R0, R0	
	50	50	AB 004CC	BISW2	R0, SETPRO_PROT	
	12	A7	3C 004D0	MOVZWL	SETPRO_MASK, R0	0925
10	A7	05	13 004D4	BEQL	51\$	
16	A7	10	B2 004D6	MCOMW	SETPRO_PROT, SETPRO_PROT	0926
14	A7	50	B0 004DB	MOVW	R0, GLOBAL_MASK	0933
		10	A7 B0 004DF	MOVW	SETPRO_PROT, GLOBAL_PROT	0934

		0334	C8	9F	004E4	52\$:	PUSHAB	P.ADC		0939
	69		01	FB	004E8		CALLS	#1, CLISPRESNT		
	04		50	E9	004EB		BLBC	R0, 53\$		
02	A7		20	88	004EE		BISB2	#32, SETFILE\$FLAGS+2		0940
		0344	C8	9F	004F2	53\$:	PUSHAB	P.ADE		0945
	69		01	FB	004F6		CALLS	#1, CLISPRESNT		
	04		50	E9	004F9		BLBC	R0, 54\$		
02	A7		02	88	004FC		BISB2	#2, SETFILE\$FLAGS+2		0946
		0354	C8	9F	00500	54\$:	PUSHAB	P.ADG		0951
	69		01	FB	00504		CALLS	#1, CLISPRESNT		
	04		50	E9	00507		BLBC	R0, 55\$		
02	A7		04	88	0050A		BISB2	#4, SETFILE\$FLAGS+2		0952
		036C	C8	9F	0050E	55\$:	PUSHAB	P.ADI		0957
	69		01	FB	00512		CALLS	#1, CLISPRESNT		
	68		50	E9	00515		BLBC	R0, 61\$		
02	A7		08	88	00518		BISB2	#8, SETFILE\$FLAGS+2		0960
34	A7	7FFF	8F	3C	0051C		MOVZWL	#32767, VRSN_VALUE		0961
		08	AE	9F	00522		PUSHAB	DESC		0962
		0384	C8	9F	00525		PUSHAB	P.ADK		
	6A		02	FB	00529		CALLS	#2, CLISGET_VALUE		
	51		50	E9	0052C		BLBC	R0, 61\$		
		34	A7	9F	0052F		PUSHAB	VRSN_VALUE		0965
		10	AE	DD	00532		PUSHL	DESC+4		0966
	7E	10	AE	3C	00535		MOVZWL	DESC, -(SP)		0965
00000000G	00		03	FB	00539		CALLS	#3, LIB\$CVT_DTB		
	14		50	E8	00540		BLBS	R0, 57\$		
		08	AE	9F	00543	56\$:	PUSHAB	DESC		0970
			01	DD	00546		PUSHL	#1		
		007710FA	8F	DD	00548		PUSHL	#7803130		
00000000G	00		03	FB	0054E		CALLS	#3, LIB\$SIGNAL		
			2D	11	00555		BRB	62\$		0971
		34	A7	D5	00557	57\$:	TSTL	VRSN_VALUE		0974
			06	12	0055A		BNEQ	58\$		
34	A7	7FFF	8F	3C	0055C		MOVZWL	#32767, VRSN_VALUE		0976
	50	34	A7	D0	00562	58\$:	MOVL	VRSN_VALUE, R0		0978
			09	19	00566		BLSS	59\$		
00007FFF	8F		50	D1	00568		CMPL	R0, #32767		0979
			0F	15	0056F		BLEQ	61\$		
		007711EA	8F	DD	00571	59\$:	PUSHL	#7803370		0981
00000000G	00		01	FB	00577	60\$:	CALLS	#1, LIB\$SIGNAL		
			04	11	0057E		BRB	62\$		
	50		01	D0	00580	61\$:	MOVL	#1, R0		0985
				04	00583		RET			
			50	D4	00584	62\$:	CLRL	R0		0986
				04	00586		RET			

; Routine Size: 1415 bytes, Routine Base: \$CODE\$ + 00E0

```

: 994      0987 1 ROUTINE parse_null_string (fab) : NOVALUE =
: 995      0988 1 ++
: 996      0989 1
: 997      0990 1 This routine parses the null string on the specified FAB to
: 998      0991 1 force RMS to clear all internal saved context.
: 999      0992 1
: 1000     0993 1 --
: 1001     0994 2 BEGIN
: 1002     0995 2 MAP
: 1003     0996 2     fab : REF $BBLOCK;
: 1004     0997 2
: 1005     0998 2 LOCAL
: 1006     0999 2     nam : REF $BBLOCK;
: 1007     1000 2
: 1008     1001 2     nam = .fab[fab$l_nam];
: 1009     1002 2     nam[nam$sv_svctx] = 0;
: 1010     1003 2     nam[nam$sv_synchk] = 1;
: 1011     1004 2     nam[nam$b_esl] = 0;
: 1012     1005 2     nam[nam$b_ess] = 0;
: 1013     1006 2     nam[nam$b_rsl] = 0;
: 1014     1007 2     nam[nam$b_rss] = 0;
: 1015     1008 2     nam[nam$l_esa] = 0;
: 1016     1009 2     nam[nam$l_rsa] = 0;
: 1017     1010 2     nam[nam$l_rlf] = 0;
: 1018     1011 2     fab[fab$b_fns] = 0;
: 1019     1012 2     fab[fab$b_dns] = 0;
: 1020     1013 2     $parse(fab=.fab);
: 1021     1014 2 RETURN;
: 1022     1015 1 END;
```

.EXTRN SYSSPARSE

0000 00000 PARSE_NULL STRING:

	51	04	AC	D0	00002	.WORD	Save nothing	: 0987
	50	28	A1	D0	00006	MOVL	FAB, R1	: 1001
33	A0	80	8F	8A	0000A	MOVL	40(R1), NAM	: 1002
08	A0		08	88	0000F	BICB2	#128, 51(NAM)	: 1003
		0A	A0	B4	00013	BISB2	#8, 8(NAM)	: 1005
		02	A0	B4	00016	CLRW	10(NAM)	: 1007
		04	A0	D4	00019	CLRW	2(NAM)	: 1009
		0C	A0	7C	0001C	CLRL	4(NAM)	: 1008
		34	A1	B4	0001F	CLRQ	12(NAM)	: 1011
			51	DD	00022	CLRW	52(R1)	: 1013
00000000G	00		01	FB	00024	PUSHL	R1	: 1015
			04	00	0002B	CALLS	#1, SYSSPARSE	
						RET		

; Routine Size: 44 bytes, Routine Base: \$CODE\$ + 0667

```
1024 1 ROUTINE set_attributes (fab) =
1025 1 ++
1026 1
1027 1 This is the routine that actually accesses the file, and sets the
1028 1 specified attributes. If an error occurs while attempting to set
1029 1 the attributes, a message telling the user is issued, and any other
1030 1 files are processed.
1031 1
1032 1 --
1033 1 BEGIN
1034 1
1035 1 MAP
1036 1     fab : REF $BLOCK;           ! Define the fab
1037 1
1038 1
1039 1 LOCAL
1040 1     atr : BLOCKVECTOR[13,8,BYTE], ! Attribute control block
1041 1     ptr,                          ! Pointer to attribute block
1042 1     status,                       ! Status return
1043 1     channel : WORD,               ! Channel number
1044 1     desc : $BLOCK[dsc$ s_bln],    ! General descriptor
1045 1     fib : $BLOCK[fib$ length],    ! A FIB for the QIO
1046 1     header : $BLOCK[512],         ! The file header
1047 1     item_list : $ITMLST DECL (ITEMS=1), ! Item list for GETDVI volume label
1048 1     ai_jnl_ace : $BLOCK[4+c]f$ c_mxjnl_nam], ! ACE to contain AI journal name
1049 1     at_jnl_ace : $BLOCK[4+c]f$ c_mxjnl_nam], ! ACE to contain AT journal name
1050 1     bi_jnl_ace : $BLOCK[4+c]f$ c_mxjnl_nam], ! ACE to contain BI journal name
1051 1     label_buffer : VECTOR[12,BYTE], ! Buffer for volume label
1052 1     iosb : VECTOR[4,WORD];        ! I/O status block
1053 1
1054 1 BIND
1055 1     recattr = header[fh2$w_recattr] : $BLOCK[atr$ s_recattr],
1056 1
1057 1     nam = .fab[fab$l_nam] : $BLOCK; ! Define the name block
1058 1
1059 1 OWN
1060 1     rmsjnlid_ace : $BLOCK[id_ace$ s_size], ! ACE to contain RMS jnl ident
1061 1     old_dir_num : WORD,                  ! Old directory id
1062 1     old_dir_seq : WORD,
1063 1     old_dir_rvn : WORD;
1064 1
1065 1
1066 1
1067 1 If no more processing is to be performed, then simply return. This handles
1068 1 the case of wildcards which do not return for each file to the routine
1069 1 that called lib$file_scan.
1070 1
1071 1 IF .setfile$flags[qual_quit]
1072 1 THEN RETURN true;
1073 1
1074 1
1075 1 See if the common specified common qualifiers match this one.
1076 1
1077 1 conf_desc[dsc$a_pointer] = .nam[nam$l_rsa]; ! Get the resultant name
1078 1 conf_desc[dsc$w_length] = .nam[nam$b_rsl]; ! of this file
1079 1
1080 1 status = lib$qual_file_match(context, ! Call the common qualifier routine
```

```
1081 1073 2 0,
1082 1074 2 conf_desc,
1083 1075 2 0,
1084 1076 2 0,
1085 1077 2 0);
1086 1078 2 IF NOT .status 2 ! If the status is false, check
1087 1079 2 THEN 2 ! if it is the "correct" false
1088 1080 2 BEGIN 2 errors that says
1089 1081 2 IF .status NEQ lib$.filfaimat 2 "file didn't match qualifiers"
1090 1082 2 THEN SIGNAL(set$.openin, 2 ! Else signal it
1091 1083 2 1,
1092 1084 2 conf_desc,
1093 1085 2 .status);
1094 1086 2 RETURN true; 2 ! and DON'T process this file
1095 1087 2 END;
1096 1088
1097 1089
1098 1090
1099 1091 2 Assign a channel to the file's device
1100 1092 2
1101 1093 2 desc[dsc$.length] = .nam[nam$.dev]; 2 ! Set up the descriptor
1102 1094 2 desc[dsc$.pointer] = .nam[nam$.dev]; 2 ! to point to the device name
1103 P 1095 2 IF NOT (status = $ASSIGN(
1104 P 1096 2 DEVNAM = desc
1105 1097 2 CHAN = channe())
1106 1098 2 THEN
1107 1099 2 BEGIN
1108 1100 2 file_error( set$.openin,
1109 1101 2 .status, .fab); 2 ! Tell user why the assign failed
1110 1102 2 RETURN true; 2 ! And continue with other files
1111 1103 2 END;
1112 1104
1113 1105
1114 1106 2 Access the file, reading the file's header
1115 1107 2
1116 1108 2 desc[dsc$.length] = fib$.length; 2 ! Re-use descriptor to point to FIB
1117 1109 2 desc[dsc$.pointer] = fib;
1118 1110
1119 1111 2 CH$FILL(0, fib$.length, fib); 2 ! Zero out the FIB
1120 1112
1121 1113 2 fib[fib$.acctl] = fib$.write OR 2 ! Set up the FIB
1122 1114 2 fib$.noread OR
1123 1115 2 fib$.nowrite;
1124 1116
1125 1117 2 fib[fib$.fid_num] = .nam[nam$.fid_num]; 2 ! Put in the file id
1126 1118 2 fib[fib$.fid_seq] = .nam[nam$.fid_seq];
1127 1119 2 fib[fib$.fid_rvn] = .nam[nam$.fid_rvn];
1128 1120
1129 1121
1130 1122
1131 1123 2 Unless some option was specified that requires the file header, don't
1132 1124 2 bother to get it.
1133 1125
1134 1126 2 IF (.setfile$.flags[qual_backup] OR
1135 1127 2 .setfile$.flags[qual_nobackup] OR
1136 1128 2 .setfile$.flags[qual_data] OR
1137 1129 2 .setfile$.flags[qual_eof] OR
```

```
1138      .setfile$flags[qual_erase] OR
1139      .setfile$flags[qual_noerase] OR
1140      .setfile$flags[qual_expi] OR
1141      .setfile$flags[qual_exte] OR
1142      .setfile$flags[qual_gbuf] OR
1143      .setfile$flags[qual_journal] OR
1144      .setfile$flags[qual_nodi] OR
1145      .setfile$flags[qual_owner] OR
1146      .setfile$flags[qual_trunc] OR
1147      .setfile$flags[qual_vrsn])
1148  AND
1149  BEGIN
1150  IF .setfile$flags[qual_quit_mod]
1151  OR NOT .setfile$flags[qual_confirm]
1152  THEN true
1153  ELSE
1154  BEGIN
1155  status = lib$confirm_act(%ASCII 'Modify file !AS? [N] : ',
1156  %REF(conf_desc));
1157  IF NOT .status
1158  THEN
1159  BEGIN
1160  IF .status EQL lib$quipro
1161  THEN (setfile$flags[qual_quit] = 1; RETURN true)
1162  ELSE IF .status EQL lib$quiconact
1163  THEN (setfile$flags[qual_quit_mod] = 1; status = 1)
1164  ELSE IF .status NEQ lib$negans
1165  THEN SIGNAL(set$_writeerr, 1, conf_desc, .status);
1166  END;
1167  .status
1168  END
1169  END
1170  THEN
1171  BEGIN
1172  atr[0,atr$w_type] = atr$c_header;          ! Get the file header
1173  atr[0,atr$w_size] = atr$s_header;
1174  atr[0,atr$l_addr] = header;
1175  atr[1,atr$w_type] = atr$c_indacety;        ! Look for an rmsjnlid ACE
1176  atr[1,atr$w_size] = id_ace$s_size;
1177  atr[1,atr$l_addr] = rmsjnlid_ace;
1178  atr[2,0,0,32,0] = 0;
1179  rmsjnlid_ace[ace$b_size] = id_ace$s_size;
1180  rmsjnlid_ace[ace$b_type] = ace$c_jnlid;
1181  rmsjnlid_ace[ace$w_flags] = ace$m_hidden OR ace$m_protected;
1182  status = $QIOW( CHAN = .channel,
1183  FUNC = IO$ACCESS OR IO$M_ACCESS,
1184  IOSB = iosb,
1185  P1 = desc,
1186  P5 = atr);
1187  IF .status THEN status = .iosb[0];
1188  IF NOT .status
1189  THEN file_error(set$_readerr,.status,.fab)
1190  ELSE
1191  BEGIN
```

```
1195 1187 4 |
1196 1188 4 | Check to see whether this is an ODS1 or an ODS2 file. If ODS1,
1197 1189 4 | copy the record attributes into the ODS2 location.
1198 1190 4 |
1199 1191 4 | IF .header[fh2$b_structlev] EQL 1
1200 1192 4 | THEN CH$MOVE(fat$c_length, header[fh1$w_recattr], header[fh2$w_recattr]);
1201 1193 4 |
1202 1194 4 |
1203 1195 4 | See if an rmsjnlid ACE already exists. Don't create a new one later, since
1204 1196 4 | one is good enough.
1205 1197 4 |
1206 1198 4 | IF .rmsjnlid_ace[ace$b_type] NEQ 0
1207 1199 4 | THEN
1208 1200 4 |     setfile$mflags[misc_already_rmsjnlid] = 1;
1209 1201 4 |
1210 1202 4 |
1211 1203 4 | Initialize the pointer to the attribute control block. The block
1212 1204 4 | will be built as we go, and the pointer shows where the next attribute
1213 1205 4 | should go in the block.
1214 1206 4 |
1215 1207 4 |     ptr = 0;
1216 1208 4 |
1217 1209 4 |
1218 1210 4 | Change the file characteristics
1219 1211 4 |
1220 1212 4 |     status = 0;                                ! Show that nothing has changed
1221 1213 4 |
1222 1214 4 | IF .setfile$mflags[qual_backup]                ! /BACKUP
1223 1215 4 | THEN
1224 1216 5 |     BEGIN
1225 1217 5 |         header[fh2$v_nobackup] = 0;
1226 1218 5 |         status = 1;
1227 1219 4 |     END;
1228 1220 4 | IF .setfile$mflags[qual_nobackup]              ! /NOBACKUP
1229 1221 4 | THEN
1230 1222 5 |     BEGIN
1231 1223 5 |         header[fh2$v_nobackup] = 1;
1232 1224 5 |         status = 1;
1233 1225 4 |     END;
1234 1226 4 |
1235 1227 4 | IF .setfile$mflags[qual_erase]                ! /ERASE
1236 1228 4 | THEN
1237 1229 5 |     BEGIN
1238 1230 5 |         IF .header[fh2$b_structlev] EQL 1      ! If not ODS2
1239 1231 5 |         THEN SIGNAL(set$m_notods2,            ! tell the user
1240 1232 5 |             1,
1241 1233 5 |             $DESCRIPTOR('/ERASE'))
1242 1234 5 |         ELSE
1243 1235 6 |             BEGIN
1244 1236 6 |                 header[fh2$v_erase] = 1;
1245 1237 6 |                 status = 1;
1246 1238 5 |             END;
1247 1239 4 |         END;
1248 1240 4 | IF .setfile$mflags[qual_noerase]              ! /NOERASE
1249 1241 4 | THEN
1250 1242 5 |     BEGIN
1251 1243 5 |         IF .header[fh2$b_structlev] EQL 1      ! If not ODS2
```

```
: 1252      1244 5      THEN SIGNAL(set$_notods2,      ! tell the user
: 1253      1245 5      1,
: 1254      1246 5      $DESCRIPTOR('/NOERASE'))
: 1255      1247 5      ELSE
: 1256      1248 6      BEGIN
: 1257      1249 6      header[fh2$_v_erase] = 0;
: 1258      1250 6      status = 1;
: 1259      1251 5      END;
: 1260      1252 4      END;
: 1261      1253 4
: 1262      1254 4      IF .setfile$flags[qual_data]      ! /DATA_CHECK
: 1263      1255 4      THEN
: 1264      1256 5      BEGIN
: 1265      1257 5      IF .setfile$dflags[data_read] THEN header[fh2$_v_readcheck] = 1;
: 1266      1258 5      IF .setfile$dflags[data_noread] THEN header[fh2$_v_readcheck] = 0;
: 1267      1259 5      IF .setfile$dflags[data_write] THEN header[fh2$_v_writcheck] = 1;
: 1268      1260 5      IF .setfile$dflags[data_nowrite] THEN header[fh2$_v_writcheck] = 0;
: 1269      1261 5      status = 1;
: 1270      1262 4      END;
: 1271      1263 4
: 1272      1264 4      IF .setfile$flags[qual_nodi]      ! /NODIRECTORY
: 1273      1265 4      THEN
: 1274      1266 5      BEGIN
: 1275      1267 5      IF .header[fh2$_b_structlev] EQL 1      ! If not ODS2
: 1276      1268 5      THEN SIGNAL (set$_notods2,      ! tell the user
: 1277      1269 5      1,
: 1278      1270 5      $DESCRIPTOR('/NODIRECTORY'))
: 1279      1271 5      ELSE
: 1280      1272 6      BEGIN
: 1281      1273 6      header[fh2$_v_directory] = 0;
: 1282      1274 6      status = 1;
: 1283      1275 5      END;
: 1284      1276 4      END;
: 1285      1277 4
: 1286      1278 4      !
: 1287      1279 4      If something in the file characteristics was changed, show it.
: 1288      1280 4      !
: 1289      1281 4      IF .status
: 1290      1282 4      THEN
: 1291      1283 5      BEGIN
: 1292      1284 5      atr[.ptr,atr$_w_type] = atr$_c_uchar;
: 1293      1285 5      atr[.ptr,atr$_w_size] = atr$_s_uchar;
: 1294      1286 5      atr[.ptr,atr$_l_addr] = header[fh2$_l_filechar];
: 1295      1287 5      ptr = .ptr + 1;
: 1296      1288 5      status = 0;      ! Reset the change indicator
: 1297      1289 4      END;
: 1298      1290 4
: 1299      1291 4      !
: 1300      1292 4      Modify the record attributes
: 1301      1293 4      !
: 1302      1294 4
: 1303      1295 4      IF .setfile$flags[qual_exte]      ! /EXTENSION
: 1304      1296 4      THEN
: 1305      1297 5      BEGIN
: 1306      1298 5      recattr[fat$_w_defext] = .exte_value;
: 1307      1299 5      status = 1;
: 1308      1300 4      END;
```

```
1309 1301 4 |
1310 1302 4 | IF /END_OF_FILE was specified, set the eof_block equal to the
1311 1303 4 | highest block allocated, and the first free byte in that block
1312 1304 4 | to 512, indicating that the entire allocated space is used.
1313 1305 4 |
1314 1306 4 | IF .setfile$flags[qual_eof]
1315 1307 4 | THEN
1316 1308 5 | BEGIN
1317 1309 5 | IF .nam[nam$w_fid_num] EQL 1 | If INDEXF.SYS
1318 1310 5 | AND .nam[nam$w_fid_seq] EQL 1
1319 1311 5 | AND .nam[nam$b_fid_nmx] EQL 0
1320 1312 5 | THEN SIGNAL (set$_writeerr, | Signal an error
1321 1313 5 | 1, | modifying it
1322 1314 5 | conf_desc, | because of an
1323 1315 5 | ss$_acconflict)
1324 1316 5 | ELSE
1325 1317 6 | BEGIN
1326 1318 6 | recattr[fat$l_efblk] = .recattr[fat$l_hiblk];
1327 1319 6 | recattr[fat$w_ffbyte] = 512;
1328 1320 6 | status = 1;
1329 1321 5 | END;
1330 1322 4 | END;
1331 1323 4 |
1332 1324 4 | If /GLOBAL_BUFFERS was specified, set the global buffer count to
1333 1325 4 | the value specified.
1334 1326 4 |
1335 1327 4 | IF .setfile$flags[qual_gbuf]
1336 1328 4 | THEN
1337 1329 5 | BEGIN
1338 1330 5 | recattr[fat$w_gbc] = .gbuf_value;
1339 1331 5 | status = 1;
1340 1332 4 | END;
1341 1333 4 |
1342 1334 4 | If something in the user attributes was changed, show it.
1343 1335 4 |
1344 1336 4 | IF .status
1345 1337 4 | THEN
1346 1338 5 | BEGIN
1347 1339 5 | atr[.ptr,atr$w_type] = atr$c_recattr;
1348 1340 5 | atr[.ptr,atr$w_size] = atr$s_recattr;
1349 1341 5 | atr[.ptr,atr$l_addr] = header[fh2$w_recattr];
1350 1342 5 | ptr = .ptr + 1;
1351 1343 4 | END;
1352 1344 4 |
1353 1345 4 | Expiration date
1354 1346 4 |
1355 1347 4 | IF .setfile$flags[qual_expi]
1356 1348 4 | THEN
1357 1349 5 | BEGIN
1358 1350 5 | CH$MOVE(8,exp_value,header[fi2$q_expdate]);
1359 1351 5 | atr[.ptr,atr$w_type] = atr$c_expdate;
1360 1352 5 | atr[.ptr,atr$w_size] = atr$s_expdate;
1361 1353 5 | atr[.ptr,atr$l_addr] = header[fi2$q_expdate];
1362 1354 5 | ptr = .ptr + 1;
1363 1355 5 | END;
1364 1356 4 |
1365 1357 4 |
```

```
1366 1358 4 |
1367 1359 4 | Owner UIC
1368 1360 4 |
1369 1361 4 |   If .setfile$flags[qual_owner]
1370 1362 4 |   THEN
1371 1363 5 |     BEGIN
1372 1364 5 |
1373 1365 5 |   If the qualifier OWNER=PARENT was specified, then the UIC of the owner
1374 1366 5 |   directory must be found. Rather than accessing the directory every time, a
1375 1367 5 |   test is made to determine if the directory's UIC has already been found. If
1376 1368 5 |   so, then the current value of UIC_VALUE is used. Otherwise, a new value is
1377 1369 5 |   found.
1378 1370 5 |
1379 1371 5 |   If .setfile$flags[qual_parent]
1380 1372 5 |   THEN
1381 1373 6 |     BEGIN
1382 1374 7 |       IF NOT ((.nam[nam$w_did_num] EQL .old_did_num) AND
1383 1375 7 |         (.nam[nam$w_did_seq] EQL .old_did_seq) AND
1384 1376 7 |         (.nam[nam$w_did_rvn] EQL .old_did_rvn))
1385 1377 6 |       THEN
1386 1378 7 |         BEGIN
1387 1379 7 |           LOCAL
1388 1380 7 |             temp_atr : BLOCKVECTOR[2,8,BYTE],
1389 1381 7 |             temp_desc : $BLOCK[dsc$c_s_bln],
1390 1382 7 |             temp_fib : $BLOCK[fib$c_extdata],
1391 1383 7 |             temp_chan;
1392 1384 7 |
1393 1385 7 |             temp_desc[dsc$w_length] = .nam[nam$b_dev];
1394 1386 7 |             temp_desc[dsc$a_pointer] = .nam[nam$t_dev];
1395 1387 8 |             IF NOT (status = $ASSIGN(DEVNAM = temp_desc,
1396 1388 8 |               CHAN = temp_chan))
1397 1389 7 |             THEN
1398 1390 8 |               BEGIN
1399 1391 8 |                 $DASSGN(CHAN = .channel);
1400 1392 8 |                 SIGNAL(set$opendir, 1, conf_desc, .status);
1401 1393 8 |                 RETURN true;
1402 1394 7 |               END;
1403 1395 7 |
1404 1396 7 |             CH$FILL(0, fib$c_extdata, temp_fib);
1405 1397 7 |
1406 1398 7 |             temp_fib[fib$l_acctl] = fib$m_noread OR fib$m_nowrite;
1407 1399 7 |             temp_fib[fib$w_fid_num] = .nam[nam$w_did_num];
1408 1400 7 |             temp_fib[fib$w_fid_seq] = .nam[nam$w_did_seq];
1409 1401 7 |             temp_fib[fib$w_fid_rvn] = .nam[nam$w_did_rvn];
1410 1402 7 |
1411 1403 7 |             temp_atr[0,atr$w_type] = atr$c_uic;
1412 1404 7 |             temp_atr[0,atr$w_size] = atr$s_uic;
1413 1405 7 |             temp_atr[0,atr$l_addr] = uic_value;
1414 1406 7 |             temp_atr[1,0,0,32,0] = 0;
1415 1407 7 |
1416 1408 7 |             temp_desc[dsc$w_length] = fib$c_extdata;
1417 1409 7 |             temp_desc[dsc$a_pointer] = temp_fib;
1418 1410 7 |
1419 1411 7 |             status = $QIOW( CHAN = .temp_chan,
1420 1412 7 |               FUNC = IO$ ACCESS,
1421 1413 7 |               IOSB = iosb,
1422 1414 7 |               P1 = temp_desc,
```

```
1423 1415 7      p5 = temp_atr);
1424 1416 7      IF .status THEN status = .iosb[0];
1425 1417 7      IF NOT .status
1426 1418 7      THEN SIGNAL_STOP(set$_opendir, 1, conf_desc, .status);
1427 1419 7      $DASSGN (CHAN = .temp_chan);
1428 1420 6      END;
1429 1421 5      END;
1430 1422 5
1431 1423 5      header[fh2$l_fileowner] = .uic_value;
1432 1424 5      atr[.ptr,atr$w_type] = atr$c_uic;
1433 1425 5      atr[.ptr,atr$w_size] = atr$c_uic;
1434 1426 5      atr[.ptr,atr$l_addr] = header[fh2$l_fileowner];
1435 1427 5      ptr = .ptr + 1;
1436 1428 4      END;
1437 1429 4
1438 1430 4
1439 1431 4      ! If /TRUNCATE was specified, find the block containing the EOF. If
1440 1432 4      the EOF occurred somewhere in that block, then truncate to the next
1441 1433 4      block.
1442 1434 4
1443 1435 4      IF .setfile$flags[qual_trunc] THEN
1444 1436 5      BEGIN
1445 1437 5      IF .recattr[fat$v_fileorg] EQL fat$c_indexed
1446 1438 5      THEN
1447 1439 5      SIGNAL(set$_writeerr, 1, conf_desc, set$_notrunc)
1448 1440 5      ELSE
1449 1441 6      BEGIN
1450 1442 6      fib[fib$v_trunc] = 1;
1451 1443 6      fib[fib$l_exvbn] = .recattr[fat$w_efblkh]^16
1452 1444 6      + .recattr[fat$w_efblk];
1453 1445 6      IF .recattr[fat$w_ffbyte] GTR 0
1454 1446 6      THEN fib[fib$l_exvbn] = .fib[fib$l_exvbn] + 1;
1455 1447 5      END;
1456 1448 4      END;
1457 1449 4
1458 1450 4      ! Set the version limit for a particular file
1459 1451 4
1460 1452 4      IF .setfile$flags[qual_vrsn]
1461 1453 4      THEN
1462 1454 5      BEGIN
1463 1455 5      fib[fib$w_did_num] = .nam[nam$w_did_num];      ! Specify the directory
1464 1456 5      fib[fib$w_did_seq] = .nam[nam$w_did_seq];
1465 1457 5      fib[fib$w_did_rvn] = .nam[nam$w_did_rvn];
1466 1458 5
1467 1459 5      fib[fib$v_findfid] = true;      ! Set the findfid bit
1468 1460 5
1469 1461 5      fib[fib$w_verlimit] = .vrsn_value;      ! And the version limit
1470 1462 4      END;
1471 1463 4
1472 1464 4
1473 1465 4      ! If any journaling was requested, make those modifications
1474 1466 4
1475 1467 4
1476 1468 4      status = 0;      ! Flag: journaling info changed.
1477 1469 4
1478 1470 4      IF .setfile$flags[qual_journal]      ! /JOURNAL
1479 1471 4      THEN
```

```
1480      1472 5
1481      1473 5
1482      1474 5
1483      1475 5
1484      1476 5
1485      1477 5
1486      1478 6
1487      1479 6
1488      1480 6
1489      1481 6
1490      1482 6
1491      1483 7
1492      1484 7
1493      1485 6
1494      1486 7
1495      1487 7
1496      1488 7
1497      1489 7
1498      1490 6
1499      1491 6
1500      1492 6
1501      1493 6
1502      1494 6
1503      1495 7
1504      1496 7
1505      1497 7
1506      1498 7
1507      1499 7
1508      1500 6
1509      1501 6
1510      1502 6
1511      1503 7
1512      1504 7
1513      1505 7
1514      1506 7
1515      1507 7
1516      1508 6
1517      1509 6
1518      1510 6
1519      1511 7
1520      1512 7
1521      1513 7
1522      1514 7
1523      1515 6
1524      1516 6
1525      1517 6
1526      1518 6
1527      1519 6
1528      1520 7
1529      1521 7
1530      1522 7
1531      1523 7
1532      1524 6
1533      1525 6
1534      1526 6
1535      1527 6
1536      1528 7

BEGIN
IF .header[fh2$b_structlev] EQL 1      ! If not ODS2
THEN SIGNAL(set$_notods2,              ! tell the user
1
$DESCRIPTOR('/JOURNAL'))
ELSE
BEGIN
! If any of the RU journal bits are going to be set,
! clear the existing header RU bits to avoid conflicts
IF (.setfile$jflags[jrnl_only_ru] OR .setfile$jflags[jrnl_never_ru]
OR .setfile$jflags[jrnl_ru])
THEN
BEGIN
header[fh2$v_ru] = 0;
header[fh2$v_only_ru] = 0;
header[fh2$v_never_ru] = 0;
END;
IF .setfile$jflags[jrnl_specified_ru]
! RU
THEN
BEGIN
header[fh2$v_ru] = .setfile$jflags[jrnl_ru];
setfile$mflags[misc_mark_file] = 1;
status = 1;
END
ELSE IF .setfile$jflags[jrnl_specified_only_ru]
! RU only
THEN
BEGIN
header[fh2$v_only_ru] = .setfile$jflags[jrnl_only_ru];
setfile$mflags[misc_mark_file] = 1;
status = 1;
END
ELSE IF .setfile$jflags[jrnl_specified_never_ru]
! RU never
THEN
BEGIN
header[fh2$v_never_ru] = .setfile$jflags[jrnl_never_ru];
setfile$mflags[misc_mark_file] = 1;
status = 1;
END;
IF .setfile$jflags[jrnl_specified_ai]
! AI journaling
THEN
BEGIN
header[fh2$v_ai] = .setfile$jflags[jrnl_ai];
setfile$mflags[misc_mark_file] = 1;
status = 1;
END;
IF .setfile$jflags[jrnl_specified_at]
! AT journaling
THEN
BEGIN
```

```
1537      header[fh2$w_atjnl] = .setfile$jflags[jrnl_at];
1538      setfile$mflags[misc_mark_file] = 1;
1539      status = 1;
1540      END;
1541      IF .setfile$jflags[jrnl_specified_bi]
1542      THEN
1543      ! BI Journaling
1544      BEGIN
1545      header[fh2$w_bijnl] = .setfile$jflags[jrnl_bi];
1546      setfile$mflags[misc_mark_file] = 1;
1547      status = 1;
1548      END;
1549      END;
1550      END;
1551      :
1552      : If there were any journal bits set, show it.
1553      :
1554      : IF (.status EQL 1)
1555      : THEN
1556      : BEGIN
1557      :   atr[.ptr,atr$w_type] = atr$c_journal;
1558      :   atr[.ptr,atr$w_size] = atr$s_journal;
1559      :   atr[.ptr,atr$l_addr] = header[fh2$w_journal];
1560      :   ptr = .ptr + 1;
1561      : END;
1562      :
1563      : If an rmsjnlid ACE needs to be added, add it here.
1564      : (Only one rmsjnlid ace is needed for journaled file.)
1565      :
1566      : IF .setfile$mflags[misc_mark_file] AND NOT .setfile$mflags[misc_already_rmsjnlid]
1567      : THEN
1568      : BEGIN
1569      :   Build JNLID ACE: volume name + file ID + current date/time.
1570      :   rmsjnlid_ace[ace$b_size] = id_ace$s_size;
1571      :   rmsjnlid_ace[ace$b_type] = ace$c_jnlid;
1572      :   rmsjnlid_ace[ace$w_flags] =
1573      :     ace$m_hidden OR ace$m_protected OR ace$m_nopropagate;
1574      :   $ITMLST_INIT (ITMLST = item_list, (ITMCOB = dvi$volnam,
1575      :     BUFAADR = label_buffer, BUFSIZ = 12));
1576      :   status = $GETDVI(EFN = 1, CHAN = .channel, ITMLST = item_list,
1577      :     IOSB = iosb);
1578      :   IF .status
1579      :   THEN
1580      :     $WAITFR(EFN = 1)
1581      :   ELSE
1582      :     SIGNAL( set$badlogic, 0, .status, 0 );
1583      :   IF NOT .iosb[0]
1584      :   THEN
1585      :     SIGNAL( set$badlogic, 0, .iosb[0], 0 );
```

```
1594      CH$MOVE(12, label_buffer, rmsjnlid_ace[id_ace$st_label]);
1595
1596      rmsjnlid_ace[id_ace$w_num] = .nam[nam$w_fid_num];
1597      rmsjnlid_ace[id_ace$w_seq] = .nam[nam$w_fid_seq];
1598      rmsjnlid_ace[id_ace$w_rvn] = .nam[nam$w_fid_rvn];
1599
1600      $GETTIM( TIMADR = rmsjnlid_ace[id_ace$q_time] );
1601
1602      atr[.ptr,atr$w_type] = atr$c_addaclent;
1603      atr[.ptr,atr$w_size] = id_ace$ss_size;
1604      atr[.ptr,atr$l_addr] = rmsjnlid_ace;
1605      ptr = .ptr + 1;
1606      END;
1607
1608
1609
1610
1611      Record journals to use in access control list.
1612
1613
1614
1615      AI Journal Name
1616
1617      IF .setfile$jflags[jrnl_ai_name]
1618      THEN
1619      BEGIN
1620      atr[.ptr,atr$w_type] = atr$c_addaclent;
1621      atr[.ptr,atr$w_size] = 4 + .ai_jnl_desc[dsc$w_length];
1622      atr[.ptr,atr$l_addr] = ai_jnl_ace;
1623      ptr = .ptr + 1;
1624
1625      ai_jnl_ace[ace$b_size] = 4 + .ai_jnl_desc[dsc$w_length];
1626      ai_jnl_ace[ace$b_type] = ace$c_ai_jnl;
1627      ai_jnl_ace[ace$w_flags] = ace$m_hidden OR ace$m_protected;
1628
1629      CH$MOVE (.ai_jnl_desc[dsc$w_length],
1630              .ai_jnl_desc[dsc$a_pointer],
1631              ai_jnl_ace[ace$st_jnlname]);
1632      END;
1633
1634
1635
1636      AT Journal Name
1637
1638      IF .setfile$jflags[jrnl_at_name]
1639      THEN
1640      BEGIN
1641      atr[.ptr,atr$w_type] = atr$c_addaclent;
1642      atr[.ptr,atr$w_size] = 4 + .at_jnl_desc[dsc$w_length];
1643      atr[.ptr,atr$l_addr] = at_jnl_ace;
1644      ptr = .ptr + 1;
1645
1646      at_jnl_ace[ace$b_size] = 4 + .at_jnl_desc[dsc$w_length];
1647      at_jnl_ace[ace$b_type] = ace$c_at_jnl;
1648      at_jnl_ace[ace$w_flags] = ace$m_hidden OR ace$m_protected;
1649
1650
```

```
1651      CHSMOVE (.at_jnl_desc[dsc$w_length],
1652               .at_jnl_desc[dsc$a_pointer],
1653               at_jnl_ace[ace$st_jnl(nam)]);
1654      END;
1655
1656      BI Journal Name
1657
1658      IF .setfile$flags[jrnl_bi_name]
1659      THEN
1660      BEGIN
1661          atr[.ptr,atr$w_type] = atr$ac_addaclent;
1662          atr[.ptr,atr$w_size] = 4 + .bi_jnl_desc[dsc$w_length];
1663          atr[.ptr,atr$l_addr] = bi_jnl_ace;
1664          ptr = .ptr + 1;
1665
1666          bi_jnl_ace[ace$b_size] = 4 + .bi_jnl_desc[dsc$w_length];
1667          bi_jnl_ace[ace$b_type] = ace$b_jnl;
1668          bi_jnl_ace[ace$w_flags] = ace$m_hidden OR ace$m_protected;
1669
1670          CHSMOVE (.bi_jnl_desc[dsc$w_length],
1671                  .bi_jnl_desc[dsc$a_pointer],
1672                  bi_jnl_ace[ace$st_jnl(nam)]);
1673      END;
1674
1675      Write the modifications out to the file header, and close the file.
1676
1677      fib[fib$l_aclctx] = 0;          ! Make sure RMS journaling ACEs go first.
1678      atr[.ptr,0,0,32,0] = 0;       ! Put a zero at end of attribute list
1679
1680      IF ( .ptr NEQ 0
1681          OR .setfile$flags[qual_trunc]
1682          OR .setfile$flags[qual_vrsn]) ! If an attribute was changed
1683          ! Or the file should be truncated
1684          ! Or the version_limit set
1685      THEN
1686      BEGIN
1687          LOCAL RES_DESC : $BLOCK [8],
1688                RES_BUF : $BLOCK [512],
1689                RES_LEN;
1690          CH$FILL (0,8, RES_DESC);
1691          RES_DESC[DSC$W_LENGTH] = 512;
1692          RES_DESC[DSC$a_POINTER] = RES_BUF;
1693          status = $QIOWT (CHAN = .channel, ! Make the modifications
1694                          FUNC = IOS$MODIFY,
1695                          IOSB = iosb,
1696                          P1 = desc,
1697                          P3 = RES_LEN,
1698                          P4 = RES_DESC,
1699                          P5 = atr);
1700          IF .status THEN status = .iosb[0];
1701          IF NOT .status
1702          THEN file_error(set$writeerr,.status,.fab) ! If the modify failed, tell user
1703          ELSE
1704              IF .setfile$flags[qual_log] ! If /LOG, tell user
```

```
: 1708      1700 5      THEN SIGNAL(set$_modified,1,conf_desc);
: 1709      1701 4      END;
: 1710      1702 4
: 1711      1703 4
: 1712      1704 4      Now to close the file. Don't bother to check the status, since the
: 1713      1705 4      modifications got made correctly.
: 1714      1706 4
: 1715      P 1707 4      SQIOW( CHAN = .channel,                      ! Deaccess the file
: 1716      P 1708 4      FUNC = IOS_DEACCESS,
: 1717      P 1709 4      IOSB = iosb,
: 1718      1710 4      P1 = desc);
: 1719      1711 4      END;
: 1720      1712 4      END;
: 1721      1713 4
: 1722      1714 4
: 1723      1715 4      If /REMOVE or /ENTER was specified, process it
: 1724      1716 4
: 1725      1717 4      IF (.setfile$flags[qual_remove] OR .setfile$flags[qual_enter])
: 1726      1718 4      THEN
: 1727      1719 4      BEGIN
: 1728      1720 4
: 1729      1721 4      Set up the FIB appropriately
: 1730      1722 4
: 1731      1723 4
: 1732      1724 4
: 1733      1725 4      fib[fib$_did_num] = .nam[nam$_did_num];      ! Put in the directory ID
: 1734      1726 4      fib[fib$_did_seq] = .nam[nam$_did_seq];
: 1735      1727 4      fib[fib$_did_rvn] = .nam[nam$_did_rvn];
: 1736      1728 4
: 1737      1729 4
: 1738      1730 4      If /REMOVE was specified, remove the directory entry
: 1739      1731 4
: 1740      1732 4      IF .setfile$flags[qual_remove]
: 1741      1733 4      THEN
: 1742      1734 4      BEGIN
: 1743      1735 4
: 1744      1736 4      Check to see if an explicit or wild version number was specified.
: 1745      1737 4      If not, exit with an error.
: 1746      1738 4
: 1747      1739 5      IF NOT (.nam[nam$_exp_ver] OR
: 1748      1740 5      .nam[nam$_wild_ver])
: 1749      1741 4      THEN SIGNAL(set$_remerr,
: 1750      1742 4      1,
: 1751      1743 4      conf_desc,
: 1752      1744 4      set$_delver)
: 1753      1745 4
: 1754      1746 4      If /CONFIRM was set by the user, then interrogate him to see
: 1755      1747 4      if the directory entry is to be removed.
: 1756      1748 4
: 1757      1749 4      ELSE
: 1758      1750 4      IF
: 1759      1751 5      BEGIN
: 1760      1752 5      IF .setfile$flags[qual_quit_rem]
: 1761      1753 5      OR NOT .setfile$flags[qual_confirm]
: 1762      1754 5      THEN true
: 1763      1755 5      ELSE
: 1764      1756 6      BEGIN
```

```
1765      status = lib$confirm_act(%ASCID 'Remove directory entry for !AS? [N]: ',
1766                                %REF(conf_desc));
1767      IF NOT .status
1768      THEN
1769          BEGIN
1770              IF .status EQL lib$quipro
1771              THEN (setfile$flags[qual_quit] = 1; RETURN true)
1772              ELSE IF .status EQL lib$quiconact
1773              THEN (setfile$flags[qual_quit_rem] = 1; status = 1)
1774              ELSE IF .status NEQ lib$negans
1775              THEN SIGNAL(set$_writeerr, 1, conf_desc, .status);
1776          END;
1777      .status
1778      END
1779      THEN
1780      BEGIN
1781          fib[fib$_fid_num] = 0;           ! Clear the File ID
1782          fib[fib$_fid_seq] = 0;
1783          fib[fib$_fid_rvn] = 0;
1784
1785      ! Isolate the file portion of the resultant file string
1786      file_name[0] = .nam[nam$_b_name]
1787                  + .nam[nam$_b_type]
1788                  + .nam[nam$_b_ver];
1789      file_name[1] = .nam[nam$_l_name];
1790
1791      ! Issue the QIO to remove the directory entry
1792      status = $QIOW( CHAN = .channel,
1793                     FUNC = IOS_DELETE,
1794                     IOSB = iosb,
1795                     P1 = desc,
1796                     P2 = file_name);
1797      IF .status THEN status = .iosb[0];
1798      IF NOT .status
1799      THEN SIGNAL(set$_writeerr, 1, file_name, .status) ! Error writing
1800
1801      ELSE
1802          IF .setfile$flags[qual_log] ! If /LOG, tell user
1803          THEN SIGNAL(set$_removed, 1, conf_desc);
1804      END;
1805
1806      ! IF /ENTER, enter the name in the directory
1807      ELSE
1808      BEGIN
1809      LOCAL
1810      new_name : VECTOR[2],           ! Place to put new filespec
```

```

1822      new_fab : $BLOCK[fab$c_bln],      ! Temp output fab
1823      new_nam : $BLOCK[nam$c_bln],      ! Temp output name block
1824      new_nam2 : $BLOCK[nam$c_bln],      ! another temp nam block
1825      new_desc : $BLOCK[dsc$c_s_bln],    ! Descriptor for new name
1826      new_nam_exp : VECTOR[nam$c_maxrss, BYTE], ! Expanded string
1827      new_nam_exp2 : VECTOR[nam$c_maxrss, BYTE]; ! Expanded string2
1828
1829      Initialize the fab and name block, using the original file name block
1830      as the related file.
1831
1832      $FAB_INIT ( FAB = new_fab,
1833      P 1833      NAM = new_nam,
1834      P 1834      FNA = .file_name[1],
1835      P 1835      FNS = .file_name[0]);
1836
1837      $NAM_INIT ( NAM = new_nam,
1838      P 1838      RLF = nam,
1839      P 1839      ESA = new_nam_exp,
1840      P 1840      ESS = nam$c_maxrss);
1841
1842      If the original file specification had a wildcard version number, then
1843      use one here.
1844
1845      IF (.nam[nam$v_wild_ver])
1846      THEN
1847      BEGIN
1848      new_fab[fab$l_dna] = UPLIT(';*');
1849      new_fab[fab$b_dns] = %CHARCOUNT(';*');
1850      END
1851      ELSE
1852      BEGIN
1853      new_fab[fab$l_dna] = 0;
1854      new_fab[fab$b_dns] = 0;
1855      END;
1856
1857      Parse once, with the OFP bit off, to fill in all the fields
1858      from the original name block
1859
1860      status = $PARSE (FAB = new_fab);
1861      CH$MOVE(nam$c_bln, new_nam, new_nam2);
1862      parse_null_string(new_fab);
1863      IF NOT .status
1864      THEN
1865      BEGIN
1866      SIGNAL_STOP(set$_enterr,
1867      2,
1868      conf_desc,
1869      file_name,
1870      .status);
1871      RETURN true;
1872      END;
1873
1874      Now parse with OFP set, to obtain the final file name
1875
1876      $FAB_INIT( FAB = new_fab,
1877      P 1877      NAM = new_nam,
1878      P 1878      FNA = .new_nam2[nam$l_esa],
```

```
: 1879 P 1871 4 FNS = .new_nam2[nam$b_esl],
: 1880 P 1872 4 FOP = ofp);
: 1881 P 1873 4 $NAM_INIT( NAM = new_nam,
: 1882 P 1874 4 RLF = nam,
: 1883 P 1875 4 ESA = new_nam_exp2,
: 1884 1876 4 ESS = nam$c_maxrss);
: 1885 1877 4
: 1886 1878 4 status = $PARSE (FAB = new_fab);
: 1887 1879 4 CH$MOVE(nam$c_bln,new_nam,new_nam2);
: 1888 1880 4 parse_null_string(new_fab);
: 1889 1881 4 IF NOT .status
: 1890 1882 4 THEN
: 1891 1883 5 BEGIN
: 1892 1884 5 SIGNAL(set$_enterr, ! Error entering
: 1893 1885 5 2,
: 1894 1886 5 conf_desc, ! This file
: 1895 1887 5 file_name, ! as this file
: 1896 1888 5 .status); ! Not on same device
: 1897 1889 5 RETURN true;
: 1898 1890 4 END;
: 1899 1891 4
: 1900 1892 4 !
: 1901 1893 4 ! Get the full file name
: 1902 1894 4
: 1903 1895 4 new_name[0] = .new_nam2[nam$b_esl];
: 1904 1896 4 new_name[1] = .new_nam2[nam$l_esa];
: 1905 1897 4
: 1906 1898 4 !
: 1907 1899 4 ! Find the actual file name
: 1908 1900 4
: 1909 1901 4 new_desc[dsc$w_length] = .new_nam2[nam$b_name]
: 1910 1902 4 + .new_nam2[nam$b_type]
: 1911 1903 4 + .new_nam2[nam$b_ver];
: 1912 1904 4 new_desc[dsc$a_pointer] = .new_nam2[nam$l_name];
: 1913 1905 4
: 1914 1906 4 !
: 1915 1907 4 ! Put in the file ID of the target directory
: 1916 1908 4
: 1917 1909 4 fib[fib$w_did_num] = .new_nam2[nam$w_did_num];
: 1918 1910 4 fib[fib$w_did_seq] = .new_nam2[nam$w_did_seq];
: 1919 1911 4 fib[fib$w_did_rvn] = .new_nam2[nam$w_did_rvn];
: 1920 1912 4
: 1921 1913 4 !
: 1922 1914 4 ! Check to see that the enter request is for the same device. If not,
: 1923 1915 4 ! signal an error. This is done by comparing the DVI field of the RMS
: 1924 1916 4 ! name blocks.
: 1925 1917 4
: 1926 1918 4 IF CH$NEQ(.(nam[nam$t_dvi])<0,8>, nam[nam$t_dvi]+1,
: 1927 1919 4 .(new_nam2[nam$t_dvi])<0,8>, new_nam2[nam$t_dvi]+1, 0)
: 1928 1920 4 THEN SIGNAL(set$-enterr, ! Error entering
: 1929 1921 4 2,
: 1930 1922 4 conf_desc, ! This file
: 1931 1923 4 new_name, ! as this file
: 1932 1924 4 RMS$-DEV) ! Not on same device
: 1933 1925 4 ELSE
: 1934 1926 4
: 1935 1927 4 ! If /CONFIRM was set by the user, then interrogate him to see
```

```
: 1936      1928  4  ! if the file is to be entered in a directory.
: 1937      1929  4  !
: 1938      1930  4      IF
: 1939      1931  5      BEGIN
: 1940      1932  5      IF .setfile$flags[qual_quit_ent]
: 1941      1933  5      OR NOT .setfile$flags[qual_confirm]
: 1942      1934  5      THEN true
: 1943      1935  5      ELSE
: 1944      1936  6      BEGIN
: 1945      1937  6      LOCAL
: 1946      1938  6      arglist : VECTOR[2];
: 1947      1939  6      arglist[0] = conf_desc;
: 1948      1940  6      arglist[1] = new_name;
: 1949      1941  6      status = lib$confirm_act(%ASCII 'Enter !AS as !AS? [N]: ',
: 1950      1942  6      arglist);
: 1951      1943  6      IF NOT .status
: 1952      1944  6      THEN
: 1953      1945  7      BEGIN
: 1954      1946  7      IF .status EQL lib$ quipro
: 1955      1947  8      THEN (setfile$flags[qual_quit] = 1; RETURN true)
: 1956      1948  7      ELSE IF .status EQL lib$ quiconact
: 1957      1949  8      THEN (setfile$flags[qual_quit_ent] = 1; status = 1)
: 1958      1950  7      ELSE IF .status NEQ lib$ negans
: 1959      1951  7      THEN SIGNAL(set$_writeerr, 1, conf_desc, .status);
: 1960      1952  6      END;
: 1961      1953  6      .status
: 1962      1954  6      END
: 1963      1955  5      END
: 1964      1956  4      THEN
: 1965      1957  5      BEGIN
: 1966      1958  5      !
: 1967      1959  5      Issue the QIO
: 1968      1960  5      !
: 1969      1961  5      !
: 1970      P 1962  5      status = $QIOW( CHAN = .channel,      ! Enter the new name
: 1971      P 1963  5      FUNC = IO$ CREATE,
: 1972      P 1964  5      IOSB = iosb,
: 1973      P 1965  5      P1 = desc,
: 1974      1966  5      P2 = new_desc);
: 1975      1967  5      IF .status THEN status = .iosb[0];
: 1976      1968  5      IF NOT .status
: 1977      1969  5      THEN SIGNAL(set$_enterr,      ! Error entering
: 1978      1970  5      2,
: 1979      1971  5      conf_desc,      ! this file
: 1980      1972  5      new_name,      ! as this file
: 1981      1973  5      .status)      ! for this reason
: 1982      1974  5      ELSE
: 1983      1975  5      IF .setfile$flags[qual_log]      ! If /LOG, tell user
: 1984      1976  5      THEN SIGNAL(set$_entered,2,conf_desc,new_name);
: 1985      1977  4      END;
: 1986      1978  3      END;      ! End of /ENTER block
: 1987      1979  2      END;      ! End of modify block
: 1988      1980  2      !
: 1989      1981  2      If /UNLOCK was specified by the user
: 1990      1982  2      !
: 1991      1983  2      IF .setfile$flags[qual_unlock]
: 1992      1984  2      THEN
```

```
1993 1985 3      IF NOT (status = unlock_action(.fab))
1994 1986 2      THEN
1995 1987 1      SIGNAL(set$_unlockerr,1,conf_desc,.status);
1996 1988 2
1997 1989 1
1998 1990 2      If /PROTECTION was specified by the user
1999 1991 1
2000 1992 2      IF .setfile$flags[qual_protection]
2001 1993 1      THEN
2002 1994 1      IF NOT (status = setpro_action(.fab))
2003 1995 1      THEN
2004 1996 1      SIGNAL(set$_proerr,1,conf_desc,.status);
2005 1997 1
2006 1998 1
2007 1999 1
2008 2000 2      Deassign the channel
2009 2001 1
2010 2002 2      IF NOT (status = $DASSGN(CHAN = .channel))
2011 2003 2      THEN file_error(set$_closeerr,.status,.fab);
2012 2004 1
2013 2005 2      RETURN true;
2014 2006 1      END;
! If deassign failed, say so
! Continue processing other files
```

```
53 41 21 20 65 6C 69 66 20 79 66 69 64 6F 4D 003A0 P.ADN: .PSECT $SPLITS,NOWRT,NOEXE,2
00 20 3A 20 5D 4E 5B 20 3F 003AF .ASCII \Modify file !AS? [N] : \<0>
010E0017 003B8 P.ADM: .LONG 17694743
00000000 003BC .ADDRESS P.ADN
45 53 41 52 45 2F 003C0 P.ADP: .ASCII \ERASE\
003C6 .BLKB 2
00000006 003C8 P.ADO: .LONG 6
00000000 003CC .ADDRESS P.ADP
45 53 41 52 45 4F 4E 2F 003D0 P.ADR: .ASCII \NOERASE\
00000008 003D8 P.ADQ: .LONG 8
00000000 003DC .ADDRESS P.ADR
59 52 4F 54 43 45 52 49 44 4F 4E 2F 003E0 P.ADT: .ASCII \NODIRECTORY\
0000000C 003EC P.ADS: .LONG 12
00000000 003F0 .ADDRESS P.ADT
4C 41 4E 52 55 4F 4A 2F 003F4 P.ADV: .ASCII \JOURNAL\
00000008 003FC P.ADU: .LONG 8
00000000 00400 .ADDRESS P.ADV
72 6F 74 63 65 72 69 64 20 65 76 6F 6D 65 52 00404 P.ADX: .ASCII \Remove directory entry for !AS? [N]: \<0>
53 41 21 20 72 6F 66 20 79 72 74 6E 65 20 79 00413
00 20 3A 5D 4E 5B 20 3F 00422
00 00 0042A .ASCII <0><0>
010E0025 0042C P.ADW: .LONG 17694757
00000000 00430 .ADDRESS P.ADX
41 21 20 73 61 20 53 41 21 20 72 00 00 2A 3B 00434 P.ADY: .ASCII \:*<0><0>
00 20 3A 5D 4E 5B 20 74 6E 45 00438 P.AEA: .ASCII \Enter !AS as !AS? [N]: \<0>
00 3F 53 00447
010E0017 00450 P.ADZ: .LONG 17694743
00000000 00454 .ADDRESS P.AEA
.PSECT $OWNS,NOEXE,2
```


3E	FF54	CD	24	A7	D0	000AD	MOVL	36(R7), FIB+4	1117
3A	FF58	CD	28	A7	B0	000B3	MOVW	40(R7), FIB+8	1119
36		6B		01	E0	000B9	BBS	#1, SETFILES\$FLAGS, 5\$	1126
32		6B		02	E0	000BD	BBS	#2, SETFILES\$FLAGS, 5\$	1127
2E		6B		04	E0	000C1	BBS	#4, SETFILES\$FLAGS, 5\$	1128
		6B		05	E0	000C5	BBS	#5, SETFILES\$FLAGS, 5\$	1129
		6B		06	E0	000C9	BBS	#6, SETFILES\$FLAGS, 5\$	1130
				6B	95	000CD	TSTB	SETFILES\$FLAGS	1131
				2A	19	000CF	BLSS	5\$	
21	01	26	01	AB	E8	000D1	BLBS	SETFILES\$FLAGS+1, 5\$	1132
1C	01	AB		01	E0	000D5	BBS	#1, SETFILES\$FLAGS+1, 5\$	1133
17	01	AB		02	E0	000DA	BBS	#2, SETFILES\$FLAGS+1, 5\$	1134
12	01	AB		03	E0	000DF	BBS	#3, SETFILES\$FLAGS+1, 5\$	1135
0D	01	AB		05	E0	000E4	BBS	#5, SETFILES\$FLAGS+1, 5\$	1136
08	02	AB		06	E0	000E9	BBS	#6, SETFILES\$FLAGS+1, 5\$	1137
03	02	AB		01	E0	000EE	BBS	#1, SETFILES\$FLAGS+2, 5\$	1138
				03	E0	000F3	BBS	#3, SETFILES\$FLAGS+2, 5\$	1139
			0700	31	000F8	BRW	72\$		
			02	AB	95	000FB	TSTB	SETFILES\$FLAGS+2	1142
				5E	19	000FE	BLSS	9\$	
5A		6B		03	E1	00100	BBC	#3, SETFILES\$FLAGS, 9\$	1143
		6E	018C	CB	9E	00104	MOVAB	CONF_DESC, (SP)	1148
				5E	DD	00109	PUSHL	SP	
			00000000'	EF	9F	0010B	PUSHAB	P.ADM	1147
00000000G	00			02	FB	00111	CALLS	#2, LIB\$CONFIRM_ACT	
	58			50	D0	00118	MOVL	R0, STATUS	
	40			58	E8	0011B	BLBS	STATUS, 9\$	1149
00000000G	8F			58	D1	0011E	CMPL	STATUS, #LIB\$_QUIPRO	1152
				03	12	00125	BNEQ	6\$	
			09C3	31	00127	BRW	89\$		
00000000G	8F			58	D1	0012A	CMPL	STATUS, #LIB\$_QUICONACT	1154
				0A	12	00131	BNEQ	7\$	
	02	AB	80	8F	88	00133	BISB2	#128, SETFILES\$FLAGS+2	1155
	58			01	D0	00138	MOVL	#1, STATUS	
00000000G	8F			1E	11	0013B	BRB	8\$	
				58	D1	0013D	CMPL	STATUS, #LIB\$_NEGANS	1156
				15	13	00144	BEQL	8\$	
			018C	58	DD	00146	PUSHL	STATUS	1157
				CB	9F	00148	PUSHAB	CONF_DESC	
				01	DD	0014C	PUSHL	#1	
00000000G	00	00000000G		8F	DD	0014E	PUSHL	#SET\$ WRITEERR	
	70			04	FB	00154	CALLS	#4, LIB\$SIGNAL	
	98	AD 000A0200		58	E9	0015B	BLBC	STATUS, 11\$	1159
	9C	AD FD50		8F	D0	0015E	MOVL	#655872, ATR	1166
	A0	AD 00230020		CD	9E	00166	MOVAB	HEADER, ATR+4	1167
	A4	AD 00000000'		8F	D0	0016C	MOVL	#2293792, ATR+8	1169
				EF	9E	00174	MOVAB	RMSJNLID_ACE, ATR+12	1170
				AD	D4	0017C	CLRL	ATR+16	1171
00000000'	EF	06000820		8F	D0	0017F	MOVL	#100665376, RMSJNLID_ACE	1173
				7E	D4	0018A	CLRL	-(SP)	1181
			98	AD	9F	0018C	PUSHAB	ATR	
				7E	7C	0018F	CLRQ	-(SP)	
				7E	D4	00191	CLRL	-(SP)	
			90	AD	9F	00193	PUSHAB	DESC	
				7E	7C	00196	CLRQ	-(SP)	
			FCF0	CD	9F	00198	PUSHAB	IOSB	
	7E		72	8F	9A	0019C	MOVZBL	#114, -(SP)	

		59	2C	AE	3C	001A0	MOVZWL	CHANNEL, R9		
				59	DD	001A4	PUSHL	R9		
				7E	D4	001A6	CLRL	-(SP)		
		00000000G	00	0C	FB	001A8	CALLS	#12, SYSSQIOW		
			58	50	DO	001AF	MOVL	R0, STATUS		
			08	58	E9	001B2	BLBC	STATUS, 10\$		1182
			58	CD	3C	001B5	MOVZWL	IOSB, STATUS		
			14	58	E8	001BA	BLBS	STATUS, 12\$		1183
				8F	BB	001BD	PUSHR	#*M<R8,R10>		1184
				8F	DD	001C1	PUSHL	#SETS_READERR		
		00000000V	EF	03	FB	001C7	CALLS	#3, FILE_ERROR		
				062A	31	001CE	BRW	72\$		
			01	FD57	CD	91	001D1	CMPB	HEADER+7, #1	1191
					08	12	001D6	BNEQ	13\$	
FD64	CD	FD5E	CD	20	28	001D8	MOVC3	#32, HEADER+14, HEADER+20		1192
				00000000'	EF	95	001E0	TSTB	RMSJNLID_ACE+1	1198
					04	13	001E6	BEQL	14\$	
			OC	AB	04	88	001E8	BISB2	#4, SETFILES\$MFLAGS	1200
					56	D4	001EC	CLRL	PTR	1207
					58	D4	001EE	CLRL	STATUS	1212
08		6B		01	E1	001F0	BBC	#1, SETFILES\$FLAGS, 15\$		1214
	FD84	CD		02	8A	001F4	BICB2	#2, HEADER+52		1217
		58		01	DO	001F9	MOVL	#1, STATUS		1218
08		6B		02	E1	001FC	BBC	#2, SETFILES\$FLAGS, 16\$		1220
	FD84	CD		02	88	00200	BISB2	#2, HEADER+52		1223
		58		01	DO	00205	MOVL	#1, STATUS		1224
26		6B		06	E1	00208	BBC	#6, SETFILES\$FLAGS, 18\$		1227
		01		FD57	CD	91	0020C	CMPB	HEADER+7, #1	1230
					17	12	00211	BNEQ	17\$	
				00000000'	EF	9F	00213	PUSHAB	P.ADO	1233
					01	DD	00219	PUSHL	#1	1231
				00000000G	8F	DD	0021B	PUSHL	#SETS_NOTODS2	
00000000G	00				03	FB	00221	CALLS	#3, LIB\$SIGNAL	
					08	11	00228	BRB	18\$	
	FD86	CD			02	88	0022A	BISB2	#2, HEADER+54	1236
		58			01	DO	0022F	MOVL	#1, STATUS	1237
					6B	95	00232	TSTB	SETFILES\$FLAGS	1240
					26	18	00234	BGEQ	20\$	
			01	FD57	CD	91	00236	CMPB	HEADER+7, #1	1243
					17	12	0023B	BNEQ	19\$	
				00000000'	EF	9F	0023D	PUSHAB	P.ADQ	1246
					01	DD	00243	PUSHL	#1	1244
				00000000G	8F	DD	00245	PUSHL	#SETS_NOTODS2	
00000000G	00				03	FB	0024B	CALLS	#3, LIB\$SIGNAL	
					08	11	00252	BRB	20\$	
	FD86	CD			02	8A	00254	BICB2	#2, HEADER+54	1249
		58			01	DO	00259	MOVL	#1, STATUS	1250
2B		6B			04	E1	0025C	BBC	#4, SETFILES\$FLAGS, 25\$	1254
05	04	AB			01	E1	00260	BBC	#1, SETFILES\$D_FLAGS, 21\$	1257
	FD84	CD			08	88	00265	BISB2	#8, HEADER+52	
05	04	AB			03	E1	0026A	BBC	#3, SETFILES\$D_FLAGS, 22\$	1258
	FD84	CD			08	8A	0026F	BICB2	#8, HEADER+52	
05	04	AB			02	E1	00274	BBC	#2, SETFILES\$D_FLAGS, 23\$	1259
	FD84	CD			10	88	00279	BISB2	#16, HEADER+52	
05	04	AB			04	E1	0027E	BBC	#4, SETFILES\$D_FLAGS, 24\$	1260
	FD84	CD			10	8A	00283	BICB2	#16, HEADER+52	
		58			01	DO	00288	MOVL	#1, STATUS	1261

26	01	AB	05	E1	0028B	25%:	BBC	#5, SETFILES\$FLAGS+1, 27\$	1264
		01	CD	91	00290		CMPB	HEADER+7, #1	1267
			17	12	00295		BNEQ	26\$	
			00000000'	EF	9F		PUSHAB	P.ADS	1270
				01	DD		PUSHL	#1	1268
			00000000G	8F	DD		PUSHL	#SETS NOTODS2	
		00	03	FB	002A5		CALLS	#3, LIB\$SIGNAL	
			08	11	002AC		BRB	27\$	
	FD85	CD	20	8A	002AE	26%:	BICB2	#32, HEADER+53	1273
		58	01	D0	002B3		MOVL	#1, STATUS	1274
		1B	58	E9	002B6	27%:	BLBC	STATUS, 28\$	1281
			9A	AD46	7F		PUSHAQ	ATR+2[PTR]	1284
		9E	03	B0	002BD		MOVW	#3, @ (SP)+	
			98	AD46	7F		PUSHAQ	ATR[PTR]	1285
		9E	04	B0	002C4		MOVW	#4, @ (SP)+	
			9C	AD46	7F		PUSHAQ	ATR+4[PTR]	1286
		9E	FD84	CD	9E		MOVAB	HEADER+52, @ (SP)+	
			56	D6	002D0		INCL	PTR	1287
			58	D4	002D2		CLRL	STATUS	1288
09	01	AB	01	E1	002D4	28%:	B3C	#1, SETFILES\$FLAGS+1, 29\$	1295
	FD76	CD	20	AB	B0		MOVW	EXT VALUE, RECATR+18	1298
		58	01	D0	002DF		MOVL	#1, STATUS	1299
3C		6B	05	E1	002E2	29%:	BBC	#5, SETFILES\$FLAGS, 31\$	1306
		01	24	A7	B1		CMPW	36(R7), #1	1309
			25	12	002EA		BNEQ	30\$	
		01	26	A7	B1		CMPW	38(R7), #1	1310
			1F	12	002F0		BNEQ	30\$	
			29	A7	95		TSTB	41(R7)	1311
			1A	12	002F5		BNEQ	30\$	
		7E	0800	8F	3C		MOVZWL	#2048, -(SP)	1312
			018C	CB	9F		PUSHAB	CONF_DESC	
				01	DD		PUSHL	#1	
			00000000G	8F	DD		PUSHL	#SETS WRITEERR	
		00	04	FB	00308		CALLS	#4, LIB\$SIGNAL	
			11	11	0030F		BRB	31\$	
	FD6C	CD	FD68	CD	D0	30%:	MOVL	RECATR+4, RECATR+8	1318
	FD70	CD	0200	8F	B0		MOVW	#512, RECATR+12	1319
		58	01	D0	0031F		MOVL	#1, STATUS	1320
09	01	AB	02	E1	00322	31%:	BBC	#2, SETFILES\$FLAGS+1, 32\$	1327
	FD78	CD	24	AB	B0		MOVW	GBUF VALUE, RECATR+20	1330
		58	01	D0	0032D		MOVL	#1, STATUS	1331
		19	58	E9	00330	32%:	BLBC	STATUS, 33\$	1336
			9A	AD46	7F		PUSHAQ	ATR+2[PTR]	1339
		9E	04	B0	00337		MOVW	#4, @ (SP)+	
			98	AD46	7F		PUSHAQ	ATR[PTR]	1340
		9E	20	B0	0033E		MOVW	#32, @ (SP)+	
			9C	AD46	7F		PUSHAQ	ATR+4[PTR]	1341
		9E	FD64	CD	9E		MOVAB	HEADER+20, @ (SP)+	
			56	D6	0034A		INCL	PTR	1342
		20	01	AB	E9	33%:	BLBC	SETFILES\$FLAGS+1, 34\$	1348
FD76	CD	18	AB	08	28		MOV3	#8, EXP VALUE, HEADER+38	1351
			9A	AD46	7F		PUSHAQ	ATR+2[PTR]	1352
		9E	13	B0	0035B		MOVW	#19, @ (SP)+	
			98	AD46	7F		PUSHAQ	ATR[PTR]	1353
		9E	08	B0	00362		MOVW	#8, @ (SP)+	
			9C	AD46	7F		PUSHAQ	ATR+4[PTR]	1354
		9E	FD76	CD	9E		MOVAB	HEADER+38, @ (SP)+	

03	01	AB	56	D6	0036E	INCL	PTR	1355	
			06	E0	00370	34\$:	BBS	#6, SETFILES\$FLAGS+1, 35\$	1361
			010A	31	00375		BRW	43\$	
		01	AB	95	00378	35\$:	TSTB	SETFILES\$FLAGS+1	1371
			03	19	0037B		BLSS	37\$	
			00E3	31	0037D	36\$:	BRW	42\$	
00000000'	EF	2A	A7	B1	00380	37\$:	CMPW	42(R7), OLD_DID_NUM	1374
			14	12	00388		BNEQ	38\$	
00000000'	EF	2C	A7	B1	0038A		CMPW	44(R7), OLD_DID_SEQ	1375
			0A	12	00392		BNEQ	38\$	
00000000'	EF	2E	A7	B1	00394		CMPW	46(R7), OLD_DID_RVN	1376
			DF	13	0039C		BEQL	36\$	
0320	CE	39	A7	9B	0039E	38\$:	MOVZBW	57(R7), TEMP_DESC	1385
FCDC	CD	44	A7	D0	003A4		MOVL	68(R7), TEMP_DESC+4	1386
			7E	7C	003AA		CLRQ	-(SP)	1388
		10	AE	9F	003AC		PUSHAB	TEMP_CHAN	
		FCD8	CD	9F	003AF		PUSHAB	TEMP_DESC	
00000000G	00		04	FB	003B3		CALLS	#4, SYSS\$ASSIGN	
	58		50	D0	003BA		MOVL	R0, STATUS	
	1A		58	E8	003BD		BLBS	STATUS, 39\$	
			59	DD	003C0		PUSHL	R9	1391
00000000G	00		01	FB	003C2		CALLS	#1, SYSS\$DASSGN	
			58	DD	003C9		PUSHL	STATUS	1392
		018C	CB	9F	003CB		PUSHAB	CONF_DESC	
			01	DD	003CF		PUSHL	#1	
		00000000G	8F	DD	003D1		PUSHL	#SET\$OPENDIR	
			FC81	31	003D7		BRW	1\$	
20	00	6E	00	2C	003DA	39\$:	MOVCS	#0, (SP), #0, #32, TEMP_FIB	1396
			0300	CE	003DF				
	0300	CE	0401	8F	3C	003E2	MOVZWL	#1025, TEMP_FIB	1398
	0304	CE	2A	A7	D0	003E9	MOVL	42(R7), TEMP_FIB+4	1399
	0308	CE	2E	A7	B0	003EF	MOVW	46(R7), TEMP_FIB+8	1401
	FCE0	CD	00150004	8F	D0	003F5	MOVL	#1376260, TEMP_ATR	1404
	FCE4	CD	28	AB	9E	003FE	MOVAB	UIC VALUE, TEMP_ATR+4	1405
			FCE8	CD	D4	00404	CLRL	TEMP_ATR+8	1406
	0320	CE	20	B0	00408		MOVW	#32, TEMP_DESC	1408
	FCDC	CD	0300	CE	9E	0040D	MOVAB	TEMP_FIB, TEMP_DESC+4	1409
			7E	D4	00414		CLRL	-(SP)	1415
			FCE0	CD	9F	00416	PUSHAB	TEMP_ATR	
			7E	7C	0041A		CLRQ	-(SP)	
			7E	D4	0041C		CLRL	-(SP)	
			FCD8	CD	9F	0041E	PUSHAB	TEMP_DESC	
			7E	7C	00422		CLRQ	-(SP)	
			FCF0	CD	9F	00424	PUSHAB	IOSB	
			32	DD	00428		PUSHL	#50	
			30	AE	DD	0042A	PUSHL	TEMP_CHAN	
			7E	D4	0042D		CLRL	-(SP)	
00000000G	00		0C	FB	0042F		CALLS	#12, SYSS\$QIOW	
	58		50	D0	00436		MOVL	R0, STATUS	
	08		58	E9	00439		BLBC	STATUS, 40\$	1416
	58		FCFL	CD	3C	0043C	MOVZWL	IOSB, STATUS	
	15		58	E8	00441		BLBS	STATUS, 41\$	1417
			58	DD	00444	40\$:	PUSHL	STATUS	1418
			018C	CB	9F	00446	PUSHAB	CONF_DESC	
			01	DD	0044A		PUSHL	#1	
			8F	DD	0044C		PUSHL	#SET\$OPENDIR	
00000000G	00	00000000G	04	FB	00452		CALLS	#4, LIB\$STOP	

			00000000G	00	08	AE	DD	00459	41\$:	PUSHL	TEMP CHAN	1419
			FD8C	CD		01	FB	0045C		CALLS	#1, SYSSDASSGN	
					28	AB	DO	00463	42\$:	MOVL	UIC VALUE, HEADER+60	1423
				9E	9A	AD46	7F	00469		PUSHAQ	ATR+2[PTR]	1424
						15	BO	0046D		MOVW	#21, @ (SP)+	
				9E	98	AD46	7F	00470		PUSHAQ	ATR[PTR]	1425
						04	BO	00474		MOVW	#4, @ (SP)+	
				9E	9C	AD46	7F	00477		PUSHAQ	ATR+4[PTR]	1426
					FD8C	CD	9E	0047B		MOVAB	HEADER+60, @ (SP)+	
						56	D6	00480		INCL	PTR	1427
				AB		01	E1	00482	43\$:	BBC	#1, SETFILES\$FLAGS+2, 45\$	1435
02	FD64	47	02	04		04	ED	00487		CMPZV	#4, #4, RECATTR, #2	1437
						1B	12	0048E		BNEQ	44\$	
					00771302	8F	DD	00490		PUSHL	#7803650	1439
					018C	CB	9F	00496		PUSHAB	CONF_DESC	
						01	DD	0049A		PUSHL	#1	
			00000000G	00		8F	DD	0049C		PUSHL	#SETS_WRITEERR	
						04	FB	004A2		CALLS	#4, LIB\$SIGNAL	
			FF67	CD		23	11	004A9		BRB	45\$	
				50	FD6C	01	88	004AB	44\$:	BISB2	#1, FIB+23	1442
				50		3C	3C	004B0		MOVZWL	RECATTR+8, R0	1443
		50		51	FD6E	10	78	004B5		ASHL	#16, R0, R0	
	FF6C	CD		50		3C	3C	004B9		MOVZWL	RECATTR+10, R1	1444
					FD70	51	C1	004BE		ADDL3	R1, R0, FIB+28	
						CD	B5	004C4		TSTW	RECATTR+12	1445
					FF6C	04	13	004C8		BEQL	45\$	
				17		CD	D6	004CA		INCL	FIB+28	1446
		02	AB			03	E1	004CE	45\$:	BBC	#3, SETFILES\$FLAGS+2, 46\$	1452
		FF5A	CD	2A		A7	DO	004D3		MOVL	42(R7), FIB+10	1455
		FF5E	CD	2E		A7	BO	004D9		MOVW	46(R7), FIB+14	1457
		FF65	CD			08	88	004DF		BISB2	#8, FIB+21	1459
		FF7C	CD	34		AB	BO	004E4		MOVW	VRSN VALUE, FIB+44	1461
						58	D4	004EA	46\$:	CLRL	STATUS	1468
			1C	01	AB	03	E1	004EC		BBC	#3, SETFILES\$FLAGS+1, 47\$	1470
				01	FD57	CD	91	004F1		CMPB	HEADER+7, #1	1473
						18	12	004F6		BNEQ	48\$	
					00000000'	EF	9F	004F8		PUSHAB	P.ADU	1476
						01	DD	004FE		PUSHL	#1	1474
			00000000G	00		8F	DD	00500		PUSHL	#SETS_NOTODS2	
						03	FB	00506		CALLS	#3, LIB\$SIGNAL	
					009F	31	0050D	47\$:	BRW	57\$		
		0A	09	AB		01	E0	00510	48\$:	BBS	#1, SETFILES\$JFLAGS+1, 49\$	1483
		05	09	AB		03	E0	00515		BBS	#3, SETFILES\$JFLAGS+1, 49\$	
					08	AB	95	0051A		TSTB	SETFILES\$JFLAGS	1484
						05	18	0051D		BGEQ	50\$	
			FD98	CD		23	8A	0051F	49\$:	BICB2	#35, HEADER+72	1489
				OF	09	AB	E9	00524	50\$:	BLBC	SETFILES\$JFLAGS+1, 51\$	1492
				01		07	EF	00528		EXTZV	#7, #1, SETFILES\$JFLAGS, R0	1496
FD98	50	08	AB	01		50	F0	0052E		INSV	R0, #1, #1, HEADER+72	
						26	11	00535		BRB	53\$	1497
						02	E1	00537	51\$:	BBC	#2, SETFILES\$JFLAGS+1, 52\$	1500
						01	EF	0053C		EXTZV	#1, #1, SETFILES\$JFLAGS+1, R0	1504
FD98	50	09	AB	01		50	F0	00542		INSV	R0, #0, #1, HEADER+72	
						12	11	00549		BRB	53\$	1505
						04	E1	0054B	52\$:	BBC	#4, SETFILES\$JFLAGS+1, 54\$	1508
						03	EF	00550		EXTZV	#3, #1, SETFILES\$JFLAGS+1, R0	1512
FD98	50	09	AB	01		50	F0	00556		INSV	R0, #5, #1, HEADER+72	

FD98	50	08	14	0C	AB	02	88	0055D	53\$:	BISB2	#2, SETFILES\$MFLAGS	1513
	CD		AB	08	58	01	DO	00561		MOVL	#1, STATUS	1514
			01		01	02	E1	00564	54\$:	BBC	#2, SETFILES\$JFLAGS, 55\$	1517
			03		01	01	EF	00569		EXTZV	#1, #1, SETFILES\$JFLAGS, R0	1521
			01		50	02	FO	0056F		INSV	R0, #3, #1, HEADER+72	
			01		02	01	88	00576		BISB2	#2, SETFILES\$MFLAGS	1522
			01		01	04	DO	0057A		MOVL	#1, STATUS	1523
FD98	50	08	14	08	AB	04	E1	0057D	55\$:	BBC	#4, SETFILES\$JFLAGS, 56\$	1525
	CD		AB		01	03	EF	00582		EXTZV	#3, #1, SETFILES\$JFLAGS, R0	1529
			01		04	50	FO	00588		INSV	R0, #4, #1, HEADER+72	
			01		0C	02	88	0058F		BISB2	#2, SETFILES\$MFLAGS	1530
			01		58	01	DO	00593		MOVL	#1, STATUS	1531
			01		08	06	E1	00596	56\$:	BBC	#6, SETFILES\$JFLAGS, 57\$	1533
FD98	50	08	14		AB	05	EF	0059B		EXTZV	#5, #1, SETFILES\$JFLAGS, R0	1537
	CD		AB		01	50	FO	005A1		INSV	R0, #2, #1, HEADER+72	
			01		02	02	88	005A8		BISB2	#2, SETFILES\$MFLAGS	1538
			01		58	01	DO	005AC		MOVL	#1, STATUS	1539
			01		01	58	D1	005AF	57\$:	CPL	STATUS, #1	1548
						19	12	005B2		BNEQ	58\$	
					9A	AD46	7F	005B4		PUSHAQ	ATR+2[PTR]	1551
					9E	1D	80	005B8		MOVW	#29, a(SP)+	
					98	AD46	7F	005BB		PUSHAQ	ATR[PTR]	1552
					9E	02	80	005BF		MOVW	#2, a(SP)+	
					9C	AD46	7F	005C2		PUSHAQ	ATR+4[PTR]	1553
					9E	FD98	CD	9E	005C6	MOVAB	HEADER+72, a(SP)+	
						56	D6	005CB		INCL	PTR	1554
03		0C	AB		01	E0	005CD	58\$:	BBS	#1, SETFILES\$MFLAGS, 60\$	1562	
					00BD	31	005D2	59\$:	BRW	64\$		
F8		0C	AB		02	E0	005D5	60\$:	BBS	#2, SETFILES\$MFLAGS, 59\$		
	00000000		EF	0E000820	8F	DO	005DA		MOVL	#234883104, RMSJNLID ACE	1568	
			50	FD40	CD	9E	005E5		MOVAB	ITEM LIST, \$\$ITMBLKPTR	1574	
			80	0022000C	8F	DO	005EA		MOVL	#2228236, (\$\$ITMBLKPTR)+		
			80	FCF8	CD	9E	005F1		MOVAB	LABEL BUFFER, (\$\$ITMBLKPTR)+		
					80	7C	005F6		CLRQ	(\$\$ITMBLKPTR)+		
					7E	7C	005F8		CLRQ	-(SP)	1577	
					7E	D4	005FA		CLRL	-(SP)		
					FCF0	CD	9F	005FC	PUSHAB	IOSB		
					FD40	CD	9F	00600	PUSHAB	ITEM LIST		
						7E	D4	00604	CLRL	-(SP)		
						59	DD	00606	PUSHL	R9		
						01	DD	00608	PUSHL	#1		
00000000G			00		08	FB	0060A		CALLS	#8, SYSSGETDVI		
			58		50	DO	00611		MOVL	R0, STATUS		
			0B		58	E9	00614		BLBC	STATUS, 61\$	1578	
					01	DD	00617		PUSHL	#1	1580	
00000000G			00		01	FB	00619		CALLS	#1, SYSSWAITFR		
					13	11	00620		BRB	62\$		
					7E	D4	00622	61\$:	CLRL	-(SP)	1582	
					58	DD	00624		PUSHL	STATUS		
					7E	D4	00626		CLRL	-(SP)		
					00771124	8F	DD	00628	PUSHL	#7803172		
00000000G			00		04	FB	0062E		CALLS	#4, LIB\$SIGNAL		
			16	FCF0	CD	E8	00635	62\$:	BLBS	IOSB, 63\$	1583	
					7E	D4	0063A		CLRL	-(SP)	1585	
			7E	FCF0	CD	3C	0063C		MOVZWL	IOSB, -(SP)		
					7E	D4	00641		CLRL	-(SP)		
					00771124	8F	DD	00643	PUSHL	#7803172		

00000000'	EF	00000000G	00	04	FB	00649	CALLS	#4, LIBSSIGNAL		
		FCF8	CD	0C	28	00650	63\$:	MOV C3	#12, LABEL BUFFER, RMSJNLID_ACE+4	1587
		00000000'	EF	24	A7	D0	0065A	MOVL	36(R7), RMSJNLID_ACE+16	1589
		00000000'	EF	28	A7	B0	00662	MOVW	40(R7), RMSJNLID_ACE+20	1591
		00000000G	00	01	FB	0066A	PUSHAB	RMSJNLID_ACE+24		1593
			9A	AD46	7F	00677	CALLS	#1, SYSSGETTIM		
			9E	1F	B0	0067B	PUSHAQ	ATR+2[PTR]		1595
			98	AD46	7F	0067E	MOVW	#31, a(SP)+		
			9E	20	B0	00682	PUSHAQ	ATR[PTR]		1596
			9C	AD46	7F	00685	MOVW	#32, a(SP)+		
		00000000'	EF	56	D6	00689	PUSHAQ	ATR+4[PTR]		1597
			9E	00000000'	EF	9E	00689	MOVAB	RMSJNLID_ACE, a(SP)+	
			AB	05	E1	00692	64\$:	INCL	PTR	1598
3C	09		9A	AD46	7F	00697	BBC	#5, SETFILESJFLAGS+1, 65\$		1610
			9E	1F	B0	0069B	PUSHAQ	ATR+2[PTR]		1613
			50	0170	CB	3C	0069E	MOVW	#31, a(SP)+	
			50	04	C0	006A3	MOVZWL	AI_JNL_DESC, R0		1614
			98	AD46	7F	006A6	ADDL2	#4, R0		
			9E	50	B0	006AA	PUSHAQ	ATR[PTR]		
			9C	AD46	7F	006AD	MOVW	R0, a(SP)+		
			9E	FD2C	CD	9E	006B1	PUSHAQ	ATR+4[PTR]	1615
				56	D6	006B6	MOVAB	AI_JNL_ACE, a(SP)+		
		FD2C	CD	50	90	006B8	INCL	PTR		1616
		FD2D	CD	03	90	006BD	MOVB	R0, AI_JNL_ACE		1618
		FD2E	CD	0600	8F	B0	006C2	MOVB	#3, AI_JNL_ACE+1	1619
FD30	CD	0174	DB	0170	CB	28	006C9	MOVW	#1536, AI_JNL_ACE+2	1620
	3C	09	AB	06	E1	006D3	65\$:	MOV C3	AI_JNL_DESC, aAI_JNL_DESC+4, AI_JNL_ACE+4	1624
			9A	AD46	7F	006D8	BBC	#6, SETFILESJFLAGS+1, 66\$		1631
			9E	1F	B0	006DC	PUSHAQ	ATR+2[PTR]		1634
			50	0178	CB	3C	006DF	MOVW	#31, a(SP)+	
			50	04	C0	006E4	MOVZWL	AT_JNL_DESC, R0		1635
			98	AD46	7F	006E7	ADDL2	#4, R0		
			9E	50	B0	006EB	PUSHAQ	ATR[PTR]		
			9C	AD46	7F	006EE	MOVW	R0, a(SP)+		
			9E	FD18	CD	9E	006F2	PUSHAQ	ATR+4[PTR]	1636
				56	D6	006F7	MOVAB	AT_JNL_ACE, a(SP)+		
		FD18	CD	50	90	006F9	INCL	PTR		1637
		FD19	CD	04	90	006FE	MOVB	R0, AT_JNL_ACE		1639
		FD1A	CD	0600	8F	B0	00703	MOVB	#4, AT_JNL_ACE+1	1640
FD1C	CD	017C	DB	0178	CB	28	0070A	MOVW	#1536, AT_JNL_ACE+2	1641
			09	AB	95	00714	66\$:	MOV C3	AT_JNL_DESC, aAT_JNL_DESC+4, AT_JNL_ACE+4	1645
			3C	18	00717	TSTB	SETFILESJFLAGS+1			1652
			9A	AD46	7F	00719	BGEQ	67\$		
			9E	1F	B0	0071D	PUSHAQ	ATR+2[PTR]		1655
			50	0180	CB	3C	00720	MOVW	#31, a(SP)+	
			50	04	C0	00725	MOVZWL	BI_JNL_DESC, R0		1656
			98	AD46	7F	00728	ADDL2	#4, R0		
			9E	50	B0	0072C	PUSHAQ	ATR[PTR]		
			9C	AD46	7F	0072F	MOVW	R0, a(SP)+		
			9E	FD04	CD	9E	00733	PUSHAQ	ATR+4[PTR]	1657
				56	D6	00738	MOVAB	BI_JNL_ACE, a(SP)+		
		FD04	CD	50	90	0073A	INCL	PTR		1658
		FD05	CD	02	90	0073F	MOVB	R0, BI_JNL_ACE		1660
		FD06	CD	0600	8F	B0	00744	MOVB	#2, BI_JNL_ACE+1	1661
FD08	CD	0184	DB	0180	CB	28	0074B	MOVW	#1536, BI_JNL_ACE+2	1662
			80	AD	D4	00755	67\$:	MOV C3	BI_JNL_DESC, aBI_JNL_DESC+4, BI_JNL_ACE+4	1666
							CLRL	FIB+48		1674

08	05 73 00	02 02 02	AB AB 6E		98 AD46 7F 00758 9E D4 0075C 56 D5 0075E 0A 12 00760 01 E0 00762 03 E1 00767 00 2C 0076C 68\$: FCE8 CD 00771 0200 8F B0 00774 0130 CE 9E 0077B 7E D4 00782 98 AD 9F 00784 FCE8 CD 9F 00787 18 AE 9F 0078B 7E D4 0078E 90 AD 9F 00790 7E 7C 00793 FCF0 CD 9F 00795 36 DD 00799 59 DD 0079B 7E D4 0079D 0C FB 0079F 50 D0 007A6 58 E9 007A9 FCF0 CD 3C 007AC 58 E8 007B1 0500 8F BB 007B4 69\$: 00000000G 8F DD 007B8 00000000V EF 03 FB 007BE 13 01 AB 18 11 007C5 018C 04 E1 007C7 70\$: 01 DD 007D0 00000000G 8F DD 007D2 03 FB 007D8 7E 7C 007DF 71\$: 7E 7C 007E1 7E D4 007E3 90 AD 9F 007E5 7E 7C 007E8 FCF0 CD 9F 007EA 34 DD 007EE 59 DD 007F0 7E D4 007F2 0C FB 007F4 08 02 AB 05 E0 007FB 72\$: 03 02 AB 04 E0 00800 0385 31 00805 A7 D0 00808 73\$: A7 B0 0080E 05 E0 00814 00FC 31 00819 34 A7 E8 0081C 74\$: 03 E0 00820 15 34 A7 0077120A 8F DD 00825 018C CB 9F 0082B 01 DD 0082F	PUSHAQ ATR[PTR] CLRL @ (SP)+ TSTL PTR BNEQ 68\$ BBS #1, SETFILES\$FLAGS+2, 68\$ BBC #3, SETFILES\$FLAGS+2, 71\$ MOVCS #0, (SP), #0, #8, RES_DESC MOVW #512, RES_DESC MOVAB RES_BUF, RES_DESC+4 CLRL -(SP) PUSHAB ATR PUSHAB RES_DESC PUSHAB RES_LEN CLRL -(SP) PUSHAB DESC CLRQ -(SP) PUSHAB IOSB PUSHL #54 PUSHL R9 CLRL -(SP) CALLS #12, SYSS\$QIOW MOVL R0, STATUS BLBC STATUS, 69\$ MOVZWL IOSB, STATUS BLBS STATUS, 70\$ PUSHR #*M<R8,R10> PUSHL #SET\$ WRITEERR CALLS #3, FILE_ERROR BRB 71\$ BBC #4, SETFILES\$FLAGS+1, 71\$ PUSHAB CONF_DESC PUSHL #1 PUSHL #SET\$ MODIFIED CALLS #3, LIB\$SIGNAL CLRQ -(SP) CLRQ -(SP) CLRL -(SP) PUSHAB DESC CLRQ -(SP) PUSHAB IOSB PUSHL #52 PUSHL R9 CLRL -(SP) CALLS #12, SYSS\$QIOW BBS #5, SETFILES\$FLAGS+2, 73\$ BBS #4, SETFILES\$FLAGS+2, 73\$ BRW 98\$ MOVL 42(R7), FIB+10 MOVW 46(R7), FIB+14 BBS #5, SETFILES\$FLAGS+2, 74\$ BRW 83\$ BLBS 52(R7), 75\$ BBS #3, 52(R7), 75\$ PUSHL #7803402 PUSHAB CONF_DESC PUSHL #1	1675 1677 1678 1679 1685 1686 1687 1694 1695 1696 1697 1699 1700 1710 1717 1725 1727 1732 1739 1740 1741
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		00000000G	8F	DD	00831	PUSHL	#SETS_REMERR			
			034C	31	00837	BRW	97\$			
59	5D		03	AB	E8	0083A	75\$:	BLBS	SETFILES\$FLAGS+3, 79\$	1752
	6B			03	E1	0083E		BBC	#3, SETFILES\$FLAGS, 79\$	1753
	6E		018C	CB	9E	00842		MOVAB	CONF_DESC, (SP)	1758
				5E	DD	00847		PUSHL	SP	
		00000000'		EF	9F	00849		PUSHAB	P.ADW	1757
	00			02	FB	0084F		CALLS	#2, LIB\$CONFIRM_ACT	
	58			50	DD	00856		MOVL	R0, STATUS	
	3F			58	E8	00859		BLBS	STATUS, 79\$	1759
	8F			58	D1	0085C		CMPL	STATUS, #LIB\$_QUIPRO	1762
				03	12	00863		BNEQ	76\$	
				0285	31	00865		BRW	89\$	
	8F			58	D1	00868	76\$:	CMPL	STATUS, #LIB\$_QUICONACT	1764
				09	12	0086F		BNEQ	77\$	
	03	AB		01	88	00871		BISB2	#1, SETFILES\$FLAGS+3	1765
	58			01	DD	00875		MOVL	#1, STATUS	
				1E	11	00878		BRB	78\$	
	8F			58	D1	0087A	77\$:	CMPL	STATUS, #LIB\$_NEGANS	1766
				15	13	00881		BEQL	78\$	
				58	DD	00883		PUSHL	STATUS	1767
		018C		CB	9F	00885		PUSHAB	CONF_DESC	
				01	DD	00889		PUSHL	#1	
		00000000G		8F	DD	0088B		PUSHL	#SETS_WRITEERR	
	00			04	FB	00891		CALLS	#4, LIB\$SIGNAL	
	7A			58	E9	00898	78\$:	BLBC	STATUS, 82\$	1769
		FF54		CD	D4	0089B	79\$:	CLRL	FIB+4	1775
		FF58		CD	B4	0089F		CLRW	FIB+8	1777
	50	3B		A7	9A	008A3		MOVZBL	59(R7), R0	1784
	51	3C		A7	9A	008A7		MOVZBL	60(R7), R1	
	50			51	C0	008AB		ADDL2	R1, R0	
	52	3D		A7	9A	008AE		MOVZBL	61(R7), R2	1785
0138	CB			52	C1	008B2		ADDL3	R2, R0, FILE_NAME	
	013C	CB		4C	A7	DD	008B8	MOVL	76(R7), FILE_NAME+4	1786
				7E	7C	008BE		CLRQ	-(SP)	1795
				7E	7C	008C0		CLRQ	-(SP)	
		0138		CB	9F	008C2		PUSHAB	FILE_NAME	
		90		AD	9F	008C6		PUSHAB	DESC	
				7E	7C	008C9		CLRQ	-(SP)	
		FCF0		CD	9F	008CB		PUSHAB	IOSB	
				35	DD	008CF		PUSHL	#53	
	7E	2C		AE	3C	008D1		MOVZWL	CHANNEL, -(SP)	
				7E	D4	008D5		CLRL	-(SP)	
	00000000G	00		0C	FB	008D7		CALLS	#12, SYSSQIOW	
	58			50	DD	008DE		MOVL	R0, STATUS	
	08			58	E9	008E1		BLBC	STATUS, 80\$	1796
	58	FCF0		CD	3C	008E4		MOVZWL	IOSB, STATUS	
	11			58	E8	008E9		BLBS	STATUS, 81\$	1797
				58	DD	008EC	80\$:	PUSHL	STATUS	1801
		0138		CB	9F	008EE		PUSHAB	FILE_NAME	1798
				01	DD	008F2		PUSHL	#1	
		00000000G		8F	DD	008F4		PUSHL	#SETS_WRITEERR	
				0289	31	008FA		BRW	97\$	
13	01	AB		04	E1	008FD	81\$:	BBC	#4, SETFILES\$FLAGS+1, 82\$	1803
		018C		CB	9F	00902		PUSHAB	CONF_DESC	1804
				01	DD	00906		PUSHL	#1	
		00000000G		8F	DD	00908		PUSHL	#SETS_REMOVED	

0050	8F	00	00000000G	00	03	FB	0090E	CALLS	#3, LIB\$SIGNAL	1750	
					0275	31	00915	BRW	98\$	1827	
					00	2C	00918	MOVCS	#0, (SP), #0, #80, \$RMS_PTR		
			02E0	CE	0091F						
			5003	8F	B0	00922		MOVW	#20483, \$RMS_PTR		
			02E0	CE	02	90	00929	MOVB	#2, \$RMS_PTR+22		
			02F6	CE	02	90	0092E	MOVB	#2, \$RMS_PTR+31		
			02FF	CE	02	90	00933	MOVAB	NEW_NAM, \$RMS_PTR+40		
			0308	CE	0280	CE	0093A	MOVL	FILE_NAME+4, \$RMS_PTR+44		
			030C	CE	013C	CB	00941	MOVB	FILE_NAME, \$RMS_PTR+52		
0060	8F	00	0314	CE	0138	CB	00948	MOVCS	#0, (SP), #0, #96, \$RMS_PTR	1831	
					00	2C	0094F				
			0280	CE	0280	8F	B0	00952	MOVW	#24578, \$RMS_PTR	
			6002	CE	01	8E	00959	MNEGB	#1, \$RMS_PTR+10		
			028A	CE	0118	CE	0095E	MOVAB	NEW_NAM_EXP, \$RMS_PTR+12		
			028C	CE	57	D0	00965	MOVL	R7, \$RMS_PTR+16		
		10	0290	CE	03	E1	0096A	BBC	#3, 52(R7), 84\$	1836	
			34	A7	EF	9E	0096F	MOVAB	P.ADY, NEW_FAB+48	1839	
			0310	CE	00000000'	02	90	00978	MOVB	#2, NEW_FAB+53	1840
			0315	CE	08	11	0097D	BRB	85\$	1836	
					0310	CE	D4	0097F	CLRL	NEW_FAB+48	1844
					0315	CE	94	00983	CLRB	NEW_FAB+53	1845
					02E0	CE	9F	00987	PUSHAB	NEW_FAB	1851
			00000000G	00	01	FB	0098B	CALLS	#1, SY\$PARSE		
				58	50	D0	00992	MOVL	R0, STATUS		
0220	CE		0280	CE	0060	8F	28	00995	MOVCS	#96, NEW_NAM, NEW_NAM2	1852
			F62C	CF	02E0	CE	9F	0099F	PUSHAB	NEW_FAB	1853
			1C		01	FB	009A3	CALLS	#1, PARSE_NULL_STRING		
					58	E8	009A8	BLBS	STATUS, 86\$	1854	
					58	DD	009AB	PUSHL	STATUS	1861	
					0138	CB	9F	009AD	PUSHAB	FILE_NAME	1857
					018C	CB	9F	009B1	PUSHAB	CONF_DESC	
					02	DD	009B5	PUSHL	#2		
			00000000G	00	8F	DD	009B7	PUSHL	#SET\$ ENTERR		
					05	FB	009BD	CALLS	#5, LIB\$STOP		
0050	8F	00			0239	31	009C4	BRW	102\$	1862	
					00	2C	009C7	MOVCS	#0, (SP), #0, #80, \$RMS_PTR	1872	
					CE		009CE				
			02E0	CE	8F	B0	009D1	MOVW	#20483, \$RMS_PTR		
			5003	CE	8F	D0	009D8	MOVL	#536870912, \$RMS_PTR+4		
			20000000	CE	02	90	009E1	MOVB	#2, \$RMS_PTR+22		
				CE	02	90	009E6	MOVB	#2, \$RMS_PTR+31		
			02E0	CE	0280	CE	009EB	MOVAB	NEW_NAM, \$RMS_PTR+40		
			02F6	CE	022C	CE	D0	009F2	MOVL	NEW_NAM2+12, \$RMS_PTR+44	
			02FF	CE	022B	CE	90	009F9	MOVB	NEW_NAM2+11, \$RMS_PTR+52	
			0308	CE	00	2C	00A00	MOVCS	#0, (SP), #0, #96, \$RMS_PTR	1876	
			030C	CE	0280	CE	00A07				
			0314	CE	6002	8F	B0	00A0A	MOVW	#24578, \$RMS_PTR	
0060	8F	00			01	8E	00A11	MNEGB	#1, \$RMS_PTR+10		
			0280	CE	18	AE	9E	00A16	MOVAB	NEW_NAM_EXP2, \$RMS_PTR+12	
			028A	CE	57	D0	00A1C	MOVL	R7, \$RMS_PTR+16		
			028C	CE	02E0	CE	9F	00A21	PUSHAB	NEW_FAB	1878
			0290	CE	01	FB	00A25	CALLS	#1, SY\$PARSE		
					50	D0	00A2C	MOVL	R0, STATUS		
0220	CE		0280	CE	0060	8F	28	00A2F	MOVCS	#96, NEW_NAM, NEW_NAM2	1879
			F592	CF	02E0	CE	9F	00A39	PUSHAB	NEW_FAB	1880
					01	FB	00A3D	CALLS	#1, PARSE_NULL_STRING		

50	00	15	A7	0234	CE	9A	00AA0	MOVZBL	NEW_NAM2+20, R0	1919	
				0235	CE		00AAB	CMPC5	R1, 21(R7), #0, R0, NEW_NAM2+21	1918	
				000184C4	09	13	00AAE	BEQL	88\$		
					8F	DD	00AB0	PUSHL	#99524	1920	
					009F	31	00AB6	BRW	95\$		
6A	03	AB	01		01	E0	00AB9	BBS	#1, SETFILES\$FLAGS+3, 93\$	1932	
66		6B	03		03	E1	00ABE	BBC	#3, SETFILES\$FLAGS, 93\$	1933	
	10	AE		018C	CB	9E	00AC2	MOVAB	CONF_DESC, ARGLIST	1939	
	14	AE		FCE8	CD	9E	00AC8	MOVAB	NEW_NAME, ARGLIST+4	1940	
				10	AE	9F	00ACE	PUSHAB	ARGLIST	1941	
				00000000	EF	9F	00AD1	PUSHAB	P.ADZ		
					02	FB	00AD7	CALLS	#2, LIB\$CONFIRM_ACT		
					58	DD	00ADE	MOVL	R0, STATUS		
					44	58	E8	00AE1	BLBS	STATUS, 93\$	1943
					8F	58	D1	00AE4	CMPL	STATUS, #LIB\$_QUIPRO	1946
					08	12	00AEB	BNEQ	90\$		
	02	AB	40		8F	88	00AED	BISB2	#64, SETFILES\$FLAGS+2	1947	
					010B	31	00AF2	BRW	102\$		
					58	D1	00AF5	CMPL	STATUS, #LIB\$_QUICONACT	1948	
					09	12	00AFC	BNEQ	91\$		
	03	AB	02		02	88	00AFE	BISB2	#2, SETFILES\$FLAGS+3	1949	
		58	01		01	DD	00B02	MOVL	#1, STATUS		
			1E		1E	11	00B05	BRB	92\$		
					58	D1	00B07	CMPL	STATUS, #LIB\$_NEGANS	1950	
					15	13	00B0E	BEQL	92\$		
					58	DD	00B10	PUSHL	STATUS	1951	
				018C	CB	9F	00B12	PUSHAB	CONF_DESC		
					01	DD	00B16	PUSHL	#1		
					8F	DD	00B18	PUSHL	#SETS\$WRITEERR		
					04	FB	00B1E	CALLS	#4, LIB\$SIGNAL		
					58	E9	00B25	BLBC	STATUS, 98\$	1953	
					7E	7C	00B28	CLRQ	-(SP)	1966	
					7E	7C	00B2A	CLRQ	-(SP)		
				0228	CE	9F	00B2C	PUSHAB	NEW_DESC		
				90	AD	9F	00B30	PUSHAB	DESC		
					7E	7C	00B33	CLRQ	-(SP)		
				FCF0	CD	9F	00B35	PUSHAB	IOSB		

			33	DD	00B39	PUSHL	#51		
	7E	2C	AE	3C	00B3B	MOVZWL	CHANNEL, -(SP)		
			7E	D4	00B3F	CLRL	-(SP)		
00000000G	00		0C	FB	00B41	CALLS	#12, SYSSQIOW		
	58		50	DO	00B48	MOVL	R0, STATUS		
	08		58	E9	00B4B	BLBC	STATUS, 94\$		1967
	58	FCF0	CD	3C	00B4E	MOVZWL	IOSB, STATUS		
	1B		58	E8	00B53	BLBS	STATUS, 96\$		1968
			58	DD	00B56	PUSHL	STATUS		1973
		FCE8	CD	9F	00B58	PUSHAB	NEW_NAME		1969
		018C	CB	9F	00B5C	PUSHAB	CONF_DESC		
			02	DD	00B60	PUSHL	#2		
00000000G	00	00000000G	8F	DD	00B62	PUSHL	#SETS ENTERR		
			05	FB	00B68	CALLS	#5, LIBSSIGNAL		
			1C	11	00B6F	BRB	98\$		
17	01	AB	04	E1	00B71	BBC	#4, SETFILES\$FLAGS+1, 98\$		1975
		FCE8	CD	9F	00B76	PUSHAB	NEW_NAME		1976
		018C	CB	9F	00B7A	PUSHAB	CONF_DESC		
			02	DD	00B7E	PUSHL	#2		
		00000000G	8F	DD	00B80	PUSHL	#SETS ENTERED		
00000000G	00		04	FB	00B86	CALLS	#4, LIBSSIGNAL		
24	02	AB	02	E1	00B8D	BBC	#2, SETFILES\$FLAGS+2, 99\$		1983
			5A	DD	00B92	PUSHL	R10		1985
00000000V	EF		01	FB	00B94	CALLS	#1, UNLOCK_ACTION		
	58		50	DO	00B9B	MOVL	R0, STATUS		
	15		58	E8	00B9E	BLBS	STATUS, 99\$		
			58	DD	00BA1	PUSHL	STATUS		1987
		018C	CB	9F	00BA3	PUSHAB	CONF_DESC		
			01	DD	00BA7	PUSHL	#1		
		00000000G	8F	DD	00BA9	PUSHL	#SETS UNLOCKERR		
00000000G	00		04	FB	00BAF	CALLS	#4, LIBSSIGNAL		
	24	02	AB	E9	00BB6	BLBC	SETFILES\$FLAGS+2, 100\$		1992
			5A	DD	00BBA	PUSHL	R10		1994
00000000V	EF		01	FB	00BBC	CALLS	#1, SETPRO_ACTION		
	58		50	DO	00BC3	MOVL	R0, STATUS		
	15		58	E8	00BC6	BLBS	STATUS, 100\$		
			58	DD	00BC9	PUSHL	STATUS		1996
		018C	CB	9F	00BCB	PUSHAB	CONF_DESC		
			01	DD	00BCF	PUSHL	#1		
		00000000G	8F	DD	00BD1	PUSHL	#SETS PROERR		
00000000G	00		04	FB	00BD7	CALLS	#4, LIBSSIGNAL		
	7E	04	AE	3C	00BDE	MOVZWL	CHANNEL, -(SP)		2002
00000000G	00		01	FB	00BE2	CALLS	#1, SYSSDASSGN		
	58		50	DO	00BE9	MOVL	R0, STATUS		
	11		58	E8	00BEC	BLBS	STATUS, 102\$		
		0500	8F	BB	00BEF	PUSHR	#M<R8,R10>		2003
		00000000G	8F	DD	00BF3	PUSHL	#SETS CLOSEERR		
00000000V	EF		03	FB	00BF9	CALLS	#3, FILE_ERROR		
	50		01	DO	00C00	MOVL	#1, R0		2005
			04	00C03	RET				2006

; Routine Size: 3076 bytes, Routine Base: \$CODE\$ + 0693

```
2016 2007 1 GLOBAL ROUTINE file_error (status1,status2,fab) =
2017 2008 1 ++
2018 2009 1
2019 2010 1 This routine is called if an error occurred while trying to access
2020 2011 1 a file. The kind of error is signalled, along with the file name.
2021 2012 1
2022 2013 1 --
2023 2014 2 BEGIN
2024 2015 2
2025 2016 2 MAP
2026 2017 2     fab : REF $BBLOCK;           ! Define the fab
2027 2018 2
2028 2019 2 BIND
2029 2020 2     status = status2 : $BBLOCK,
2030 2021 2     nam = .fab[fab$l_nam] : $BBLOCK;   ! Define the name block
2031 2022 2
2032 2023 2 LOCAL
2033 2024 2     desc : VECTOR[2];           ! A temporary descriptor
2034 2025 2
2035 2026 2
2036 2027 2
2037 2028 2     Check to see if there's a name in the resultant string field.
2038 2029 2     If there is, use it.
2039 2030 2
2040 2031 2 IF .nam[nam$b_rsl] NEQ 0
2041 2032 2 THEN
2042 2033 2     BEGIN
2043 2034 2         desc[0] = .nam[nam$b_rsl];
2044 2035 2         desc[1] = .nam[nam$l_rsa];
2045 2036 2     END
2046 2037 2
2047 2038 2
2048 2039 2     If no resultant name, try the expanded name
2049 2040 2
2050 2041 2 ELSE IF .nam[nam$b_esl] NEQ 0
2051 2042 2 THEN
2052 2043 2     BEGIN
2053 2044 2         desc[0] = .nam[nam$b_esl];
2054 2045 2         desc[1] = .nam[nam$l_esa];
2055 2046 2     END
2056 2047 2
2057 2048 2
2058 2049 2     If no expanded name, use the original name in the fab
2059 2050 2
2060 2051 2 ELSE
2061 2052 2     BEGIN
2062 2053 2         desc[0] = .fab[fab$b_fns];
2063 2054 2         desc[1] = .fab[fab$l_fna];
2064 2055 2     END;
2065 2056 2
2066 2057 2
2067 2058 2     Signal the error
2068 2059 2
2069 2060 2 SIGNAL(.status1,
2070 2061 2     1,
2071 2062 2     desc,
2072 2063 2     .status);
```

```
! Report error
! One FAO argument
! Which is the file name
! Plus original error
```

SETFILE
V04-000

F 8
16-Sep-1984 00:53:51
14-Sep-1984 12:09:07

VAX-11 Bliss-32 V4.0-742
[CLIUTL.SRC]SETFILE.B32;1

Page 69
(10)

: 2073
: 2074
2064 2 RETURN true;
2065 1 END;

			0000 00000		.ENTRY	FILE ERROR, Save nothing	: 2007
	5E		08 C2 00002		SUBL2	#8, SP	: 2021
	51	0C	AC D0 00005		MOVL	FAB, R1	: 2031
	50	28	A1 D0 00009		MOVL	40(R1), R0	: 2034
		03	A0 95 0000D		TSTB	3(R0)	: 2035
			0B 13 00010		BEQL	1\$: 2031
	6E	03	A0 9A 00012		MOVZBL	3(R0), DESC	: 2041
04	AE	04	A0 D0 00016		MOVL	4(R0), DESC+4	: 2044
			19 11 0001B		BRB	3\$: 2045
		0B	A0 95 0001D	1\$:	TSTB	11(R0)	: 2041
			0B 13 00020		BEQL	2\$: 2053
	6E	0B	A0 9A 00022		MOVZBL	11(R0), DESC	: 2054
04	AE	0C	A0 D0 00026		MOVL	12(R0), DESC+4	: 2063
			09 11 0002B		BRB	3\$: 2060
	6E	34	A1 9A 0002D	2\$:	MOVZBL	52(R1), DESC	: 2064
04	AE	2C	A1 D0 00031		MOVL	44(R1), DESC+4	: 2065
		0B	AC DD 00036	3\$:	PUSHL	STATUS	
		04	AE 9F 00039		PUSHAB	DESC	
			01 DD 0003C		PUSHL	#1	
		04	AC DD 0003E		PUSHL	STATUS1	
00000000G	00		04 FB 00041		CALLS	#4, LIB\$SIGNAL	
	50		01 D0 00048		MOVL	#1, R0	
			04 0004B		RET		

; Routine Size: 76 bytes, Routine Base: \$CODE\$ + 1297

: 2075
2066 1

```
2077 1 GLOBAL ROUTINE check_privilege : NOVALUE =
2078 1 ++
2079 1
2080 1 This routine checks that the image has the correct privilege.
2081 1
2082 1 ---
2083 2 BEGIN
2084 2
2085 2 LOCAL
2086 2     status,
2087 2     oldpriv : $BBLOCK[8];          ! Permanent privileges go here
2088 2
2089 2 OWN
2090 2     newpriv : $BBLOCK[8]          ! Mask to disable SYSPRV
2091 2     PRESET([priv$syspriv]=true);
2092 2
2093 2
2094 2 The image SET is installed with SYSPRV privilege, but we don't want the user
2095 2 to have that much power unless s/he already has it. So, first check to
2096 2 see if the process has the privilege, and if not, then remove it for the
2097 2 duration of this image.
2098 2
2099 2 IF NOT (status = $SETPRV(ENBFLG = 1,          ! Enable
2100 2     PRVADR = 0,          ! No new privileges
2101 2     PRMFLG = 1,          ! Permanent privs
2102 2     PRVPRV = oldpriv)) ! Store current ones here
2103 2 THEN SIGNAL_STOP(.status);
2104 2
2105 2 Check to see if privilege there. If not, then remove it from current
2106 2 privileges.
2107 2
2108 2 IF NOT .oldpriv[priv$syspriv]          ! If SYSPRV not permanent
2109 2 THEN
2110 2     BEGIN
2111 2     IF NOT (status = $SETPRV(ENBFLG = 0,          ! Disable
2112 2     PRVADR = newpriv,          ! this privilege
2113 2     PRMFLG = 0,          ! for the duration of this image
2114 2     PRVPRV = 0))
2115 2     THEN SIGNAL_STOP(.status)
2116 2     END;
2117 2
2118 2 RETURN;
2119 1 END;
```

.PSECT \$OWNS\$,NOEXE,2

```
00# 0002A NEWPRIV: .BLKB 2
10 0002C .BYTE 0[3]
0002F .BYTE 16
00030 .BLKB 4
```

.PSECT \$CODE\$,NOWRT,2

			001C 00000	.ENTRY	CHECK PRIVILEGE, Save R2,R3,R4	: 2067
54	00000000G	00	9E 00002	MOVAB	SYSS\$SETPRV, R4	
53	00000000G	00	9E 00009	MOVAB	LIB\$STOP, R3	
5E		08	C2 00010	SUBL2	#8, SP	
		5E	DD 00013	PUSHL	SP	: 2092
		01	DD 00015	PUSHL	#1	
7E		01	7D 00017	MOVQ	#1, -(SP)	
64		04	FB 0001A	CALLS	#4, SYSS\$SETPRV	
52		50	DO 0001D	MOVL	R0, STATUS	
05		52	EB 00020	BLBS	STATUS, 1\$	
		52	DD 00023	PUSHL	STATUS	: 2093
63		01	FB 00025	CALLS	#1, LIB\$STOP	
18	03	AE	04	EO 00028	BBS	#4, OLDPRIV+3, 2\$
		7E	7C 0002D	CLRQ	-(SP)	: 2098
		EF	9F 0002F	PUSHAB	NEWPRIV	: 2104
		7E	D4 00035	CLRL	-(SP)	
64		04	FB 00037	CALLS	#4, SYSS\$SETPRV	
52		50	DO 0003A	MOVL	R0, STATUS	
05		52	EB 0003D	BLBS	STATUS, 2\$	
		52	DD 00040	PUSHL	STATUS	: 2105
63		01	FB 00042	CALLS	#1, LIB\$STOP	
		04	00045	RET		: 2109

; Routine Size: 70 bytes, Routine Base: \$CODE\$ + 12E3

```
2121 1 GLOBAL ROUTINE search_error (fab) =
2122 1 ++
2123 1
2124 1 This routine is called when lib$file_scan detects an error while
2125 1 searching for a file specified in the command line.
2126 1
2127 1 --
2128 1 BEGIN
2129 1
2130 1 MAP
2131 1     fab : REF $BBLOCK;           ! Define FAB format
2132 1
2133 1 BIND
2134 1     nam = .fab[fab$l_nam] : $BBLOCK; ! Define NAM block
2135 1
2136 1 LOCAL
2137 1     desc : VECTOR[2];           ! A temporary descriptor
2138 1
2139 1
2140 1 Check to see if there's a name in the resultant string field.
2141 1 If there is, use it.
2142 1
2143 1 IF .nam[nam$b_rsl] NEQ 0
2144 1 THEN
2145 1     BEGIN
2146 1         desc[0] = .nam[nam$b_rsl];
2147 1         desc[1] = .nam[nam$l_rsa];
2148 1     END
2149 1
2150 1
2151 1 If no resultant name, try the expanded name
2152 1
2153 1 ELSE IF .nam[nam$b_esl] NEQ 0
2154 1 THEN
2155 1     BEGIN
2156 1         desc[0] = .nam[nam$b_esl];
2157 1         desc[1] = .nam[nam$l_esa];
2158 1     END
2159 1
2160 1
2161 1 If no expanded name, use the original name in the fab
2162 1
2163 1 ELSE
2164 1     BEGIN
2165 1         desc[0] = .fab[fab$b_fns];
2166 1         desc[1] = .fab[fab$l_fna];
2167 1     END;
2168 1
2169 1
2170 1 Signal the error
2171 1
2172 1 SIGNAL_STOP(set$searchfail,
2173 1     1,
2174 1     desc,
2175 1     .fab[fab$l_sts],
2176 1     .fab[fab$l_stv]);
2177 1 RETURN true;
```

```
! One FAO argument
! Which is the file name
! Show RMS error code
! And secondary error code
```

: 2178

2167 1 END:

VAX-11 BLISS-32 V4.0-742
[CLIUTL.SRC]SETFILE.B32;1

Page 73
(12)

Address	Instruction	Comment	PC
0000	00000	.ENTRY	2110
0001	00002	SEARCH_ERROR, Save nothing	
0002	00005	SUBL2 #8, SP	2123
0003	00009	MOVL FAB, R1	
0004	0000D	MOVL 40(R1), R0	2132
0005	00010	TSTB 3(R0)	
0006	00012	BEQL 1\$	2135
0007	00016	MOVZBL 3(R0), DESC	2136
0008	0001B	MOVL 4(R0), DESC+4	2132
0009	0001D	BRB 3\$	2142
000A	00020	TSTB 11(R0)	
000B	00022	BEQL 2\$	2145
000C	00026	MOVZBL 11(R0), DESC	2146
000D	0002B	MOVL 12(R0), DESC+4	2142
000E	0002D	BRB 3\$	2154
000F	00031	MOVZBL 52(R1), DESC	2155
0010	00036	MOVL 44(R1), DESC+4	2164
0011	0003A	MOVQ 8(R1), -(SP)	2161
0012	0003D	PUSHAB DESC	
0013	0003F	PUSHL #1	
0014	00045	PUSHL #7803450	
0015	0004C	CALLS #5, LIB\$STOP	2166
0016	0004F	MOVL #1, R0	2167
0017		RET	

; Routine Size: 80 bytes, Routine Base: \$CODES + 1329

```
2180 2168 1 ROUTINE unlock_action (fab) =
2181 2169 1
2182 2170 1 ----
2183 2171 1
2184 2172 1 Functional description
2185 2173 1
2186 2174 1 This routine is called from SET_ATTRIBUTES whenever
2187 2175 1 a successful file match for /LOCK occurs
2188 2176 1
2189 2177 1 Input parameters
2190 2178 1
2191 2179 1 fab = Address of block describing the file
2192 2180 1
2193 2181 1 Output parameters
2194 2182 1
2195 2183 1 None
2196 2184 1 ----
2197 2185 1
2198 2186 1
2199 2187 2 BEGIN
2200 2188 2
2201 2189 2 MAP fab: REF $BLOCK; ! Define fab block format
2202 2190 2
2203 2191 2 LOCAL status; ! Receives status
2204 2192 2
2205 2193 2
2206 2194 2 If /CONFIRM was set by the user then interrogate him to see if
2207 2195 2 this file is to be unlocked
2208 2196 2
2209 2197 2 IF
2210 2198 2 BEGIN
2211 2199 3 IF .setfile$flags[qual_quit_unlock]
2212 2200 3 OR NOT .setfile$flags[qual_confirm]
2213 2201 3 THEN true
2214 2202 3 ELSE
2215 2203 4 BEGIN
2216 2204 4 status = lib$confirm_act(%ASCID 'Unlock file !AS? [N] : ',
2217 2205 4 %REF(conf_desc));
2218 2206 4
2219 2207 4 IF NOT .status
2220 2208 4 THEN
2221 2209 5 BEGIN
2222 2210 6 IF .status EQL lib$quipro
2223 2211 5 THEN (setfile$flags[qual_quit] = 1; RETURN true)
2224 2212 6 ELSE IF .status EQL lib$quiconact
2225 2213 5 THEN (setfile$flags[qual_quit_mod] = 1; status = 1)
2226 2214 5 ELSE IF .status NEQ lib$negans
2227 2215 4 THEN SIGNAL(set$_writeerr, 1, conf_desc, .status);
2228 2216 4
2229 2217 4 .status
2230 2218 4 END
2231 2219 3 END
2232 2220 2 THEN
2233 2221 2 BEGIN
2234 2222 2
2235 2223 2 Call LIB$UNLOCK_FILE to unlock the file
2236 2224 2
```

```
2237 2225 3
2238 2226 IF NOT (status = lib$unlock_file(conf_desc)) ! Call unlock with file name
2239 2227 THEN
2240 2228 RETURN(.status);
2241 2229
2242 2230
2243 2231 Check to see if unlock worked. $$$_WASSET indicates the file
2244 2232 was unlocked. $$$_WASCLR indicates the file was already unlocked
2245 2233 and no other error occurred
2246 2234
2247 2235
2248 2236 IF (.status EQL $$$_WASCLR) ! If file not locked
2249 2237 THEN
2250 2238 SIGNAL(set$_notlocked,1,conf_desc)
2251 2239 ELSE ! File was unlocked
2252 2240 IF .setfile$flags[qual log] !if /LOG tell user
2253 2241 THEN SIGNAL(set$_unlocked,1,conf_desc);
2254 2242
2255 2243 END;
2256 2244 RETURN(true); ! Both returns above
2257 2245 ! are ok!
2258 2246 1 END;
```

```
53 41 21 20 65 6C 69 66 20 6B 63 6F 6C 6E 55 00458 P.AEC: .PSECT $PLITS,NOWRT,NOEXE,2
00 20 3A 20 5D 4E 5B 20 3F 00467 .ASCII \Unlock file !AS? [N] : \<0>
010E0017 00470 P.AEB: .LONG 17694743
00000000 00474 .ADDRESS P.AEC
```

```
.PSECT $CODE$,NOWRT,2
001C 00000 UNLOCK_ACTION:
54 00000000G 00 9E 00002 .WORD Save R2,R3,R4
53 00000000' EF 9E 00009 MOVAB LIB$SIGNAL, R4
5E 04 C2 00010 MOVAB SETFILE$FLAGS, R3
5A 03 A3 03 E0 00013 SUBL2 #4, SP
63 03 E1 00018 BBS #3, SETFILE$FLAGS+3, 4$
6E 018C C3 9E 0001C BBC #3, SETFILE$FLAGS, 4$
00000000' 5E DD 00021 MOVAB CONF_DESC, (SP)
00000000G 00 02 FB 00029 PUSHL SP
52 50 D0 00030 PUSHAB P.AEB
40 52 E8 00033 CALLS #2, LIB$CONFIRM_ACT
00000000G 8F 52 D1 00036 MOVL R0, STATUS
02 A3 40 07 12 0003D BLBS STATUS, 4$
00000000G 8F 52 D1 00046 CMPL STATUS, #LIB$_QUIPRO
02 A3 80 0A 12 0004D BNEQ 1$
02 A3 80 8F 88 0004F BISB2 #64, SETFILE$FLAGS+2
52 01 D0 00054 BRB 8$
CMPL STATUS, #LIB$_QUICONACT
BNEQ 2$
BISB2 #128, SETFILE$FLAGS+2
MOVL #1, STATUS
```

00000000G	8F	1A	11	00057	BRB	3\$			
		52	D1	00059	2\$:	CMPL	STATUS, #LIB\$_NEGANS	2213	
		11	13	00060		BEQL	3\$		
	018C	52	DD	00062		PUSHL	STATUS	2214	
		C3	9F	00064		PUSHAB	CONF_DESC		
		01	DD	00068		PUSHL	#1		
	00000000G	8F	DD	0006A		PUSHL	#SETS_WRITEERR		
64		04	FB	00070		CALLS	#4, LIB\$SIGNAL		
3C		52	E9	00073	3\$:	BLBC	STATUS, 8\$	2216	
	018C	C3	9F	00076	4\$:	PUSHAB	CONF_DESC	2226	
00000000G	00	01	FB	0007A		CALLS	#1, LIB\$UNLOCK_FILE		
	52	50	DD	00081		MOVL	R0, STATUS		
	04	52	E8	00084		BLBS	STATUS, 5\$		
	50	52	DD	00087		MOVL	STATUS, R0	2228	
			04	0008A		RET			
	01	52	D1	0008B	5\$:	CMPL	STATUS, #1	2236	
		0E	12	0008E		BNEQ	6\$		
	018C	C3	9F	00090		PUSHAB	CONF_DESC	2238	
		01	DD	00094		PUSHL	#1		
	00000000G	8F	DD	00096		PUSHL	#SETS_NOTLOCKED		
		11	11	0009C		BRB	7\$		
OF	01	A3	04	E1	0009E	6\$:	BBC	#4, SETFILES\$FLAGS+1, 8\$	2240
		018C	C3	9F	000A3		PUSHAB	CONF_DESC	2241
		01	DD	000A7		PUSHL	#1		
	00000000G	8F	DD	000A9		PUSHL	#SETS_UNLOCKED		
	64	03	FB	000AF	7\$:	CALLS	#3, LIB\$SIGNAL		
	50	01	DD	000B2	8\$:	MOVL	#1, R0	2243	
			04	000B5		RET		2246	

; Routine Size: 182 bytes, Routine Base: \$CODE\$ + 1379

```
2260 2247 1 ROUTINE setpro_action (fab): =
2261 2248 1
2262 2249 1 ----
2263 2250 1
2264 2251 1 Functional description
2265 2252 1
2266 2253 1 This routine is called from SET_ATTRIBUTES whenever
2267 2254 1 the qualifier PROTECTION is found
2268 2255 1
2269 2256 1 Input parameters
2270 2257 1
2271 2258 1 fab = Address of block describing the file
2272 2259 1 fab$l_nam = pointer to name block
2273 2260 1
2274 2261 1 Output parameters
2275 2262 1
2276 2263 1 First error encountered, or TRUE is RETURNED
2277 2264 1
2278 2265 1 ----
2279 2266 1
2280 2267 2 BEGIN
2281 2268 2
2282 2269 2 MAP fab: REF $BBLOCK; : Define fab block format
2283 2270 2
2284 2271 2 LOCAL
2285 2272 2 p_res_mask, : Enable-mask parameter
2286 2273 2 p_res_prot, : Value-mask parameter
2287 2274 2 final_prot: WORD, : Receives final protection
2288 2275 2 desc: VECTOR[2], : Temporary string descriptor
2289 2276 2 status; : Receives status
2290 2277 2
2291 2278 2
2292 2279 2
2293 2280 2 If /CONFIRM was set by the user then interrogate him to see if
2294 2281 2 this file is to have its protection changed.
2295 2282 2
2296 2283 2 IF
2297 2284 2 BEGIN
2298 2285 2 IF .setfile$flags[qual_quit_protect]
2299 2286 2 OR NOT .setfile$flags[qual_confirm]
2300 2287 2 THEN true
2301 2288 2 ELSE
2302 2289 2 BEGIN
2303 2290 2 status = lib$confirm_act(%ASCII 'Change protection of file !AS? [N] : ',
2304 2291 2 %REF(conf_desc));
2305 2292 2 IF NOT .status
2306 2293 2 THEN
2307 2294 2 BEGIN
2308 2295 2 IF .status EQL lib$ quipro
2309 2296 2 THEN (setfile$flags[qual_quit] = 1; RETURN true)
2310 2297 2 ELSE IF .status EQL lib$ quiconact
2311 2298 2 THEN (setfile$flags[qual_quit_mod] = 1; status = 1)
2312 2299 2 ELSE IF .status NEQ lib$ negans
2313 2300 2 THEN SIGNAL(set$_writeerr, 1, conf_desc, .status);
2314 2301 2 END;
2315 2302 2 .status
2316 2303 2 END
```

```
2317      2304      3      END
2318      2305      3      THEN
2319      2306      3      BEGIN
2320      2307      3      ! Compute the parameters for lib$set_file_prot. If not protection
2321      2308      3      ! value was specified set enable-mask and value-mask to zero to
2322      2309      3      ! cause protection to be set to the process default.
2323      2310      3
2324      2311      3      p_res_mask = global_mask;
2325      2312      3      p_res_prot = global_prot;
2326      2313      3
2327      2314      3      IF .global_mask EQL 0      ! If not protection values specified
2328      2315      3      THEN p_res_mask = p_res_prot = 0;      ! pass null parameters
2329      2316      3
2330      2317      3
2331      2318      3      !
2332      2319      3      ! Call lib$set_file_prot to set file protection
2333      2320      3      !
2334      2321      3
2335      2322      3      IF NOT (status = lib$set_file_prot (      ! Call library routine with
2336      2323      4      conf_desc,      ! - file name
2337      2324      4      .p_res_mask,      ! - result mask
2338      2325      4      .p_res_prot,      ! - result protection
2339      2326      4      final_prot))      ! - final protection returned
2340      2327      4      ! by lib$set_file_prot
2341      2328      4
2342      2329      3      THEN
2343      2330      4      BEGIN
2344      2331      4      SIGNAL (      ! Tell the user of error
2345      2332      4      set$_pronotchg,      ! - "Not changed" error message
2346      2333      4      1,      ! - 1 FA0 argument
2347      2334      4      conf_desc,      ! - descriptor of filename
2348      2335      4      .status);      ! - original error
2349      2336      4      return (.status);      ! Return to the caller
2350      2337      4      END;
2351      2338      4
2352      2339      3
2353      2340      3      !
2354      2341      3      ! If /LOG was set then do it
2355      2342      3      !
2356      2343      3
2357      2344      4      IF (.setfile$flags[qual_log])      ! If logging requested
2358      2345      3      THEN prot_log_results (.fab,.final_prot);      ! then call the logger
2359      2346      3
2360      2347      2      END;
2361      2348      2      RETURN (true);
2362      2349      2
2363      2350      1      END;
```

.PSECT \$PLITS,NOWRT,NOEXE,2

```
69 74 63 65 74 6F 72 70 20 65 67 6E 61 68 43 00478 P.AEE: .ASCII \Change protection of file !AS? [N] : \<0> :
3F 53 41 21 20 65 6C 69 66 20 66 6F 20 6E 6F 00487
00 20 3A 20 5D 4E 5B 20 00496
00 00 0049E
010E0025 004A0 P.AED: .ASCII <0><0>
.LONG 17694757
```

00000000' 004A4

.ADDRESS P.AEE

.PSECT \$CODE\$,NOWRT,2

				001C	00000	SETPRO_ACTION:			
		54	00000000G	00	9E	00002	.WORD	Save R2,R3,R4	: 2247
		53	00000000'	EF	9E	00009	MOVAB	LIB\$SIGNAL, R4	
		5E		10	C2	00010	MOVAB	SETFILE\$FLAGS, R3	
5E	03	A3		02	E0	00013	SUBL2	#16, SP	
5A		63		03	E1	00018	BBS	#2, SETFILE\$FLAGS+3, 4\$: 2285
		6E	018C	C3	9E	0001C	BBC	#3, SETFILE\$FLAGS, 4\$: 2286
				5E	DD	00021	MOVAB	CONF_DESC, (SP)	: 2291
			00000000'	EF	9F	00023	PUSHL	SP	
		00		02	FB	00029	PUSHAB	P.AED	: 2290
		52		50	DD	00030	CALLS	#2, LIB\$CONFIRM_ACT	
		40		52	E8	00033	MOVL	R0, STATUS	
		8F		52	D1	00036	BLBS	STATUS, 4\$: 2292
				07	12	0003D	CMPL	STATUS, #LIB\$_QUIPRO	: 2295
		02	A3	40	8F	88	BNEQ	1\$	
				7F	11	00044	BISB2	#64, SETFILE\$FLAGS+2	: 2296
		8F		52	D1	00046	BRB	7\$	
				0A	12	0004D	CMPL	STATUS, #LIB\$_QUICONACT	: 2297
		02	A3	80	8F	88	BNEQ	2\$	
		52		01	DD	00054	BISB2	#128, SETFILE\$FLAGS+2	: 2298
				1A	11	00057	MOVL	#1, STATUS	
		8F		52	D1	00059	BRB	3\$	
				11	13	00060	CMPL	STATUS, #LIB\$_NEGANS	: 2299
				52	DD	00062	BEQL	3\$	
			018C	C3	9F	00064	PUSHL	STATUS	: 2300
				01	DD	00068	PUSHAB	CONF_DESC	
			00000000G	8F	DD	0006A	PUSHL	#1	
		64		04	FB	00070	PUSHL	#SET\$ WRITEERR	
		4F		52	E9	00073	CALLS	#4, LIB\$SIGNAL	
		51	16	A3	9E	00076	BLBC	STATUS, 7\$: 2302
		50	14	A3	9E	0007A	MOVAB	GLOBAL_MASK, P_RES_MASK	: 2312
			16	A3	B5	0007E	MOVAB	GLOBAL_PROT, P_RES_PROT	: 2313
				02	12	00081	TSTW	GLOBAL_MASK	: 2315
				50	7C	00083	BNEQ	5\$	
			04	AE	9F	00085	CLRQ	P_RES_PROT	: 2316
				50	DD	00088	PUSHAB	FINAL_PROT	: 2323
				51	DD	0008A	PUSHL	P_RES_PROT	: 2326
				C3	9F	0008C	PUSHL	P_RES_MASK	: 2325
			018C	04	FB	00090	PUSHAB	CONF_DESC	: 2323
		00		50	DD	00097	CALLS	#4, LIB\$SET_FILE_PROT	
		52		52	E8	0009A	MOVL	R0, STATUS	
		15		52	DD	0009D	BLBS	STATUS, 6\$	
				C3	9F	0009F	PUSHL	STATUS	: 2335
			018C	01	DD	000A3	PUSHAB	CONF_DESC	: 2331
				8F	DD	000A5	PUSHL	#1	
			00000000G	04	FB	000AB	PUSHL	#SET\$ PRONOTCHG	
		64		52	DD	000AE	CALLS	#4, LIB\$SIGNAL	
		50		04	00	000B1	MOVL	STATUS, R0	: 2336
				04	E1	000B2	RET		
OE	01	A3		04	AE	3C	BBC	#4, SETFILE\$FLAGS+1, 7\$: 2344
		7E	04				MOVZWL	FINAL_PROT, -(SP)	: 2345

SETFILE
V04-000

D 9
16-Sep-1984 00:53:51
14-Sep-1984 12:09:07

VAX-11 Bliss-32 V4.0-742
[CLIUTL.SRC]SETFILE.B32;1

Page 80
(14)

00000000V	EF	04	AC	DD	000BB	PUSHL	FAB	
	50		02	FB	000BE	CALLS	#2,	PROT_LOG_RESULTS
			01	DO	000C5	MOVL	#1,	R0
			04	000C8	7%:	RET		

:
:
: 2348
: 2350

; Routine Size: 201 bytes, Routine Base: \$CODE\$ + 142F

```
2365 1 ROUTINE prot_log_results (fab,final_prot): =
2366 1
2367 1 ----
2368 1
2369 1 Functional description
2370 1
2371 1 This routine is called from SETPRO_ACTION whenever
2372 1 logging for /PROTECTION is requested
2373 1
2374 1 Input parameters
2375 1
2376 1 fab = Address of block describing the file
2377 1 fab$l_nam = pointer to name block
2378 1
2379 1 Output parameters
2380 1
2381 1 First error encountered, or TRUE is RETURNED
2382 1
2383 1 ----
2384 1
2385 2 BEGIN
2386 2
2387 2 LITERAL
2388 2 pbufsize = 32; ! Buffer for generating string
2389 2
2390 2 MAP fab: REF $BBLOCK; ! Define fab block format
2391 2
2392 2 BIND nam = .fab[fab$l_nam]: $BBLOCK; ! Define name block
2393 2
2394 2 LOCAL
2395 2 status:, ! Recieves status
2396 2 pbuf: VECTOR[pbufsize,BYTE], ! Place for protection string
2397 2 pdesc: VECTOR[2], ! Temporary string descriptor
2398 2 desc: VECTOR[2], ! Temporary string descriptor
2399 2 prot_table: VECTOR[4]; ! Protection string table
2400 2
2401 2
2402 2
2403 2 Now build the resultant protection string from the value passed
2404 2 in the call.
2405 2
2406 2
2407 2 expand_prot( ! Call sub with
2408 2 prot_table, ! -place for the result
2409 2 .final_prot); ! -final protection value
2410 2
2411 2 pdesc[0] = pbufsize; ! Initialize descriptor size
2412 2 pdesc[1] = pbuf; ! Initialize descriptor address
2413 2
2414 2 IF NOT (status =
P 2401 2 $FAOL ( ! Call system service with
P 2402 2 CTRSTR = ADDRDESC ('S:!AS,O:!AS,G:!AS,W:!AS'), ! -FAO string
P 2403 2 OUTLEN = pdesc[0], ! -place for resultant length
P 2404 2 OUTBUF = pdesc, ! -output buffer descriptor
2405 2 PRMLST = prot_table) ! -address of list of args
2406 2 ) THEN BEGIN
2407 2 SIGNAL (.status); ! Oops, tell the user
```

```
: 2422      2408 3      return (.status);  
: 2423      2409 2      END;  
: 2424      2410 2  
: 2425      2411 2      SIGNAL      (set$_protected,  
: 2426      2412 2      2,  
: 2427      2413 2      conf_desc,  
: 2428      2414 2      pdesc);  
: 2429      2415 2  
: 2430      2416 2      RETURN (true);  
: 2431      2417 2  
: 2432      2418 1 END;
```

! And exit immediately

! Inform user with
! -two FAO arguments
! -file name
! -new protection

```
21 3A 47 2C 53 41 21 3A 4F 2C 53 41 21 3A 53 004A8 P.AEG: .ASCII \S:!AS,O:!AS,G:!AS,W:!AS\<0>  
00 53 41 21 3A 57 2C 53 41 004B7  
00000017 004C0 P.AEF: .LONG 23  
00000000 004C4 .ADDRESS P.AEG
```

.EXTRN SYSSFAOL

.PSECT \$CODE\$,NOWRT,2

000C 00000 PROT_LOG_RESULTS:

53	00000000G	00	9E	00002	WORD	Save R2,R3	2351
5E		AE	9E	00009	MOVAB	LIB\$SIGNAL, R3	
		AC	DD	0000D	MOVAB	-64(SP), SP	
		AE	9F	00010	PUSHL	FINAL_PROT	2395
		02	FB	00013	PUSHAB	PROT_TABLE	2393
00000000V	EF	20	DD	0001A	CALLS	#2, EXPAND_PROT	
18	AE		AE	9E	MOVL	#32, PDESC	2397
1C	AE	20	5E	DD	MOVAB	PBUF, PDESC+4	2398
		1C	AE	9F	PUSHL	SP	2405
		20	AE	9F	PUSHAB	PDESC	
		00000000	AE	9F	PUSHAB	PDESC	
00000000G	00	04	FB	00031	PUSHAB	P.AEF	
	52	50	DD	00038	CALLS	#4, SYSSFAOL	
	09	52	E8	0003B	MOVL	R0, STATUS	
		52	DD	0003E	BLBS	STATUS, 1\$	
	63	01	FB	00040	PUSHL	STATUS	2407
	50	52	DD	00043	CALLS	#1, LIB\$SIGNAL	
		04	00046	MOVL	STATUS, R0		2408
		18	AE	9F	RET		
		00000000	EF	9F	PUSHAB	PDESC	2411
		02	DD	00050	PUSHAB	CONF_DESC	
		8F	DD	00052	PUSHL	#2	
	63	04	FB	00058	PUSHL	#SET\$ PROTECTED	
	50	01	DD	0005B	CALLS	#4, LIB\$SIGNAL	
		04	0005E	MOVL	#1, R0		2416
				RET			2418

; Routine Size: 95 bytes, Routine Base: \$CODE\$ + 14F8

```
2434 1 ROUTINE expand_prot (table, protection): =
2435 1
2436 1 ----
2437 1
2438 1 Functional description
2439 1
2440 1 This routine, called from PROT_LOG_RESULTS, fills
2441 1 a given VECTOR with the addresses of strings
2442 1 corresponding to a given protection word.
2443 1
2444 1 Input parameters
2445 1
2446 1 table = Address of the table to be filled in.
2447 1 protection = Protection word.
2448 1
2449 1 Output parameters
2450 1
2451 1 table has been filled in with the addresses of descriptors
2452 1 of strings describing each type of user (SYS,OWN,GRP,WORLD).
2453 1
2454 1 ----
2455 1
2456 2 BEGIN
2457 2
2458 2 BIND
2459 2 prot_table = .table: VECTOR[4]; ! Table of addresses
2460 2
2461 2 OWN
2462 2 prot_values: VECTOR[16] INITIAL( ! Protection descriptions
2463 2 ADDRDESC('RWED'),
2464 2 ADDRDESC('WED'),
2465 2 ADDRDESC('RED'),
2466 2 ADDRDESC('ED'),
2467 2 ADDRDESC('RWD'),
2468 2 ADDRDESC('WD'),
2469 2 ADDRDESC('RD'),
2470 2 ADDRDESC('D'),
2471 2 ADDRDESC('RWE'),
2472 2 ADDRDESC('WE'),
2473 2 ADDRDESC('RE'),
2474 2 ADDRDESC('E'),
2475 2 ADDRDESC('RW'),
2476 2 ADDRDESC('W'),
2477 2 ADDRDESC('R'),
2478 2 ADDRDESC(''));
2479 2
2480 2 INCR index FROM 0 TO 3 DO
2481 2 prot_table[index] = .prot_values [.protection<.index*4,4>];
2482 2
2483 2 RETURN (true); ! Always return true
2484 2
2485 1 END;
```

.PSECT \$PLITS,NOWRT,NOEXE,2

.PSECT SOWNS,NOEXE,2

```

00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 00034 PROT_VALUES:
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 0004C .ADDRESS P.AEH, P.AEJ, P.AEL, P.AEN, P.AEP, -
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 00064 P.AER, P.AET, P.AEV, P.AEX, P.AEZ, P.AFB, -
P.AFD, P.AFF, P.AFH, P.AFJ, P.AFL

```

.PSECT \$CODE\$,NOWRT,2

0004 00000 EXPAND_PROT:

51	08	52 AC	50	04	00000000'EF	50 D4 00002	1\$:	.WORD	Save R2	:	2419
		E8	04	BC40		02 78 00004		CLRL	INDEX	:	2465
			50			52 EF 00008		ASHL	#2, INDEX, R2	:	2466
			50			41 D0 0000E		EXTZV	R2, #4, PROTECTION, R1	:	
			50			03 F3 00018		MOVL	PROT VALUES[R1], @TABLE[INDEX]	:	
			01	D0	0001C			AOBLEQ	#3, INDEX, 1\$:	2468
			04	0001F				MOVL	#1, R0	:	2470
								RET		:	

; Routine Size: 32 bytes, Routine Base: \$CODE\$ + 1557

```
2487 2471 1 ROUTINE parse_class (desc) =
2488 2472 1
2489 2473 1 ---
2490 2474 1
2491 2475 1 This routine called from SETPRO ACTION, parses one class of user
2492 2476 1 (e.g. SYSTEM, OWNER, GROUP, WORD) to see what protection is allowed.
2493 2477 1 The value returned in the low 4 bits is the protection code, with the
2494 2478 1 bits set to reflect that access is requested. Note that this is
2495 2479 1 exactly the opposite of what the system wants.
2496 2480 1
2497 2481 1 Inputs:
2498 2482 1
2499 2483 1 DESC -- a descriptor pointing to the ASCII representation of the
2500 2484 1 protection desired
2501 2485 1
2502 2486 1 ---
2503 2487 1
2504 2488 2 BEGIN
2505 2489 2
2506 2490 2 MAP desc : REF $BBLOCK;
2507 2491 2
2508 2492 2 LOCAL
2509 2493 2 pointer, ! Pointer to string
2510 2494 2 result; ! Resultant protection
2511 2495 2
2512 2496 2
2513 2497 2 Initially set the value to all zeros, no access
2514 2498 2
2515 2499 2 result = 0;
2516 2500 2
2517 2501 2
2518 2502 2 Scan for the occurrence of each keyletter, and, if it is there, set the
2519 2503 2 appropriate bit.
2520 2504 2
2521 2505 2 pointer = .desc[dsc$a_pointer];
2522 2506 2 INCR index FROM 1 to .desc[dsc$w_length] DO
2523 2507 2 BEGIN
2524 2508 2 LOCAL char : BYTE;
2525 2509 2 char = CH$RCHAR_A(pointer);
2526 2510 2 IF .char EQL 'R'
2527 2511 2 THEN result = .result OR %X'1'
2528 2512 2 ELSE IF .char EQL 'W'
2529 2513 2 THEN result = .result OR %X'2'
2530 2514 2 ELSE IF .char EQL 'E'
2531 2515 2 OR .char EQL 'P'
2532 2516 2 THEN result = .result OR %X'4'
2533 2517 2 ELSE IF .char EQL 'D'
2534 2518 2 OR .char EQL 'L'
2535 2519 2 THEN result = .result OR %X'8'
2536 2520 2 ELSE SIGNAL_STOP (set$syntax, 1, .desc);
2537 2521 2 END;
2538 2522 2
2539 2523 2 RETURN .result;
2540 2524 1 END;
```

```
007C 00000 PARSE_CLASS:
      52      04 AC D0 00002      .WORD      Save R2,R3,R4,R5,R6      : 2471
      56      04 A2 D0 00006      MOVL      DESC, R2                : 2505
      55      62 3C 0000A      MOVL      4(R2), POINTER            :
      53      7C 0000D      MOVZWL     (R2), R5                    : 2506
      4C      11 0000F      CLRQ      INDEX                        :
      86      90 00011 1$:      BRB      8$                        :
      50      91 00014      MOVB      (POINTER)+, CHAR              : 2509
      8F      05 12 00018      CMPB      CHAR, #82                 : 2510
      54      01 88 0001A      BNEQ      2$                        :
      3E      11 0001D      BISB2     #1, RESULT                    : 2511
      57      8F      50 91 0001F 2$:      BRB      8$                        :
      54      05 12 00023      CMPB      CHAR, #87                 : 2512
      33      02 88 00025      BNEQ      3$                        :
      45      8F      50 91 0002A 3$:      BISB2     #2, RESULT                    : 2513
      50      06 13 0002E      BRB      8$                        :
      54      50 91 00030      CMPB      CHAR, #69                 : 2514
      54      05 12 00034      BEQL      4$                        :
      44      8F      04 88 00036 4$:      BRB      8$                        : 2515
      4C      8F      22 11 00039      CMPB      CHAR, #80           : 2516
      54      50 91 0003B 5$:      BRB      8$                        :
      4C      8F      06 13 0003F      BISB2     #4, RESULT                    : 2517
      54      50 91 00041      BRB      8$                        :
      54      05 12 00045      CMPB      CHAR, #68                 : 2518
      08      88 00047 6$:      BEQL      6$                        :
      11      11 0004A      BNEQ      7$                        :
      52      DD 0004C 7$:      BISB2     #8, RESULT                    : 2519
      01      DD 0004E      BRB      8$                        :
      8F      DD 00050      PUSHL     R2                            : 2520
      03      FB 00056      PUSHL     #1                            :
      55      F3 0005D 8$:      PUSHL     #7803130                  :
      54      D0 00061      CALLS     #3, LIB$STOP                  :
      04      00064      AOBLEQ     R5, INDEX, 1$                  : 2506
      04      00064      MOVL      RESULT, R0                      : 2523
      04      00064      RET                                           : 2524
```

; Routine Size: 101 bytes, Routine Base: \$CODE\$ + 1577

SETFILE
V04-000

L 9
16-Sep-1984 00:53:51
14-Sep-1984 12:09:07

VAX-11 Bliss-32 V4.0-742
[CLIUTL.SRC]SETFILE.B32;1

Page 88
(18)

: 2542
: 2543
2525 1 END
2526 0 ELUDOM

.EXTRN LIB\$SIGNAL, LIB\$STOP

PSECT SUMMARY

Name	Bytes	Attributes
\$GLOBALS	1112	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$OWNS	116	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$PLITS	1412	NOVEC, NOWRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$CODE\$	5596	NOVEC, NOWRT, RD, EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
. ABS .	0	NOVEC, NOWRT, NORD, NOEXE, NOSHR, LCL, ABS, CON, NOPIC, ALIGN(0)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
-\$255\$DUA28:[SYSLIB]LIB.L32;1	18619	224	1	1000	00:01.9
-\$255\$DUA28:[SYSLIB]CLIMAC.L32;1	14	0	0	9	00:00.1

COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LISS:SETFILE/OBJ=OBJ\$:SETFILE MSRC\$:SETFILE/UPDATE=(ENH\$:SETFILE)

: Size: 5596 code + 2640 data bytes
: Run Time: 01:41.5
: Elapsed Time: 05:29.3
: Lines/CPU Min: 1492
: Lexemes/CPU-Min: 22862
: Memory Used: 780 pages
: Compilation Complete

0053 AH-BT13A-SE
VAX/VMS V4.0

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